

AX 23

Approved For Release 2002/08/19 : CIA-RDP83-00415R013900030005-9

0-14136 25X1

CLASSIFICATION

SECURITY INFORMATION

CENTRAL INTELLIGENCE AGENCY

REPORT NO.

INFORMATION REPORT

CD NO.

COUNTRY East Germany

DATE DISTR. 14 January 1953

SUBJECT VEM Transformatorenwerk Karl Liebknecht VEB:
Specifications for U-Coils, High-Tension Coils,
and Electric Control System for Cranes

NO. OF PAGES 1

25X1 PLACE
ACQUIRED

NO. OF ENCLS. 4 (1 typed page;
(LISTED BELOW) 36 photostats)

DATE OF INF
ACQUIRED

SUPPLEMENT TO 25X1
REPORT NO.

25X1

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CLASSIFICATION

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- Encl. 1 - Photostats of plans for 5-coils, fabrication No. 342,003. 3 pages.
- Encl. 2 - Photostats of plans for high-tension and standard coils manufactured in the Transformatorenwerk VEB Karl Liebknecht. 10 pages.
- Encl. 3 - Photostats of plans of the electric signal installation in a control system for railway routes (complete plan of current path). 13 pages.

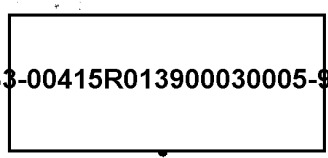
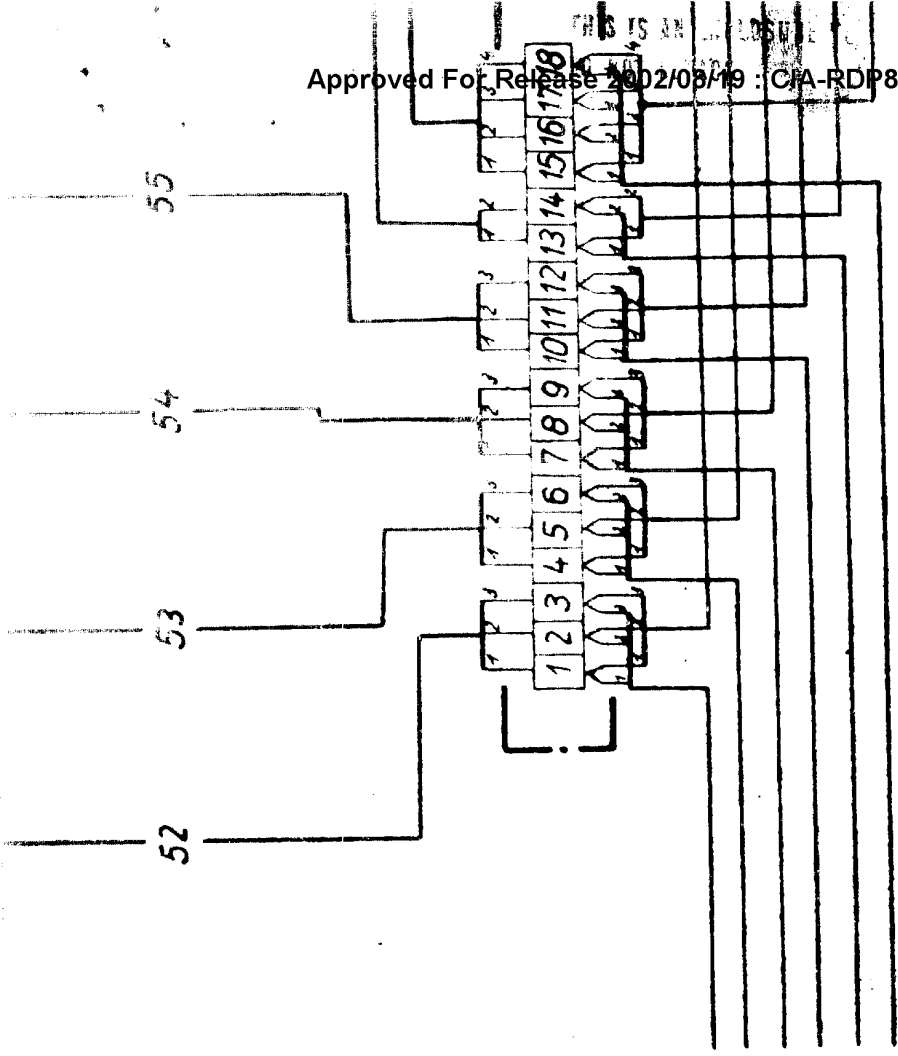
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- Encl. 1 - Photostats of plans for U-coils, fabrication No. 342,003. 8 pages.
- Encl. 2 - Photostats of plans for high-tension and standard coils manufactured in the Transformatorenwerk VEB Karl Liebknecht. 10 pages.
- Encl. 3 - Photostats of plans of the electric signal installation in a control system for gantry crane (complete plan of current path). 18 pages.

Encl. 3



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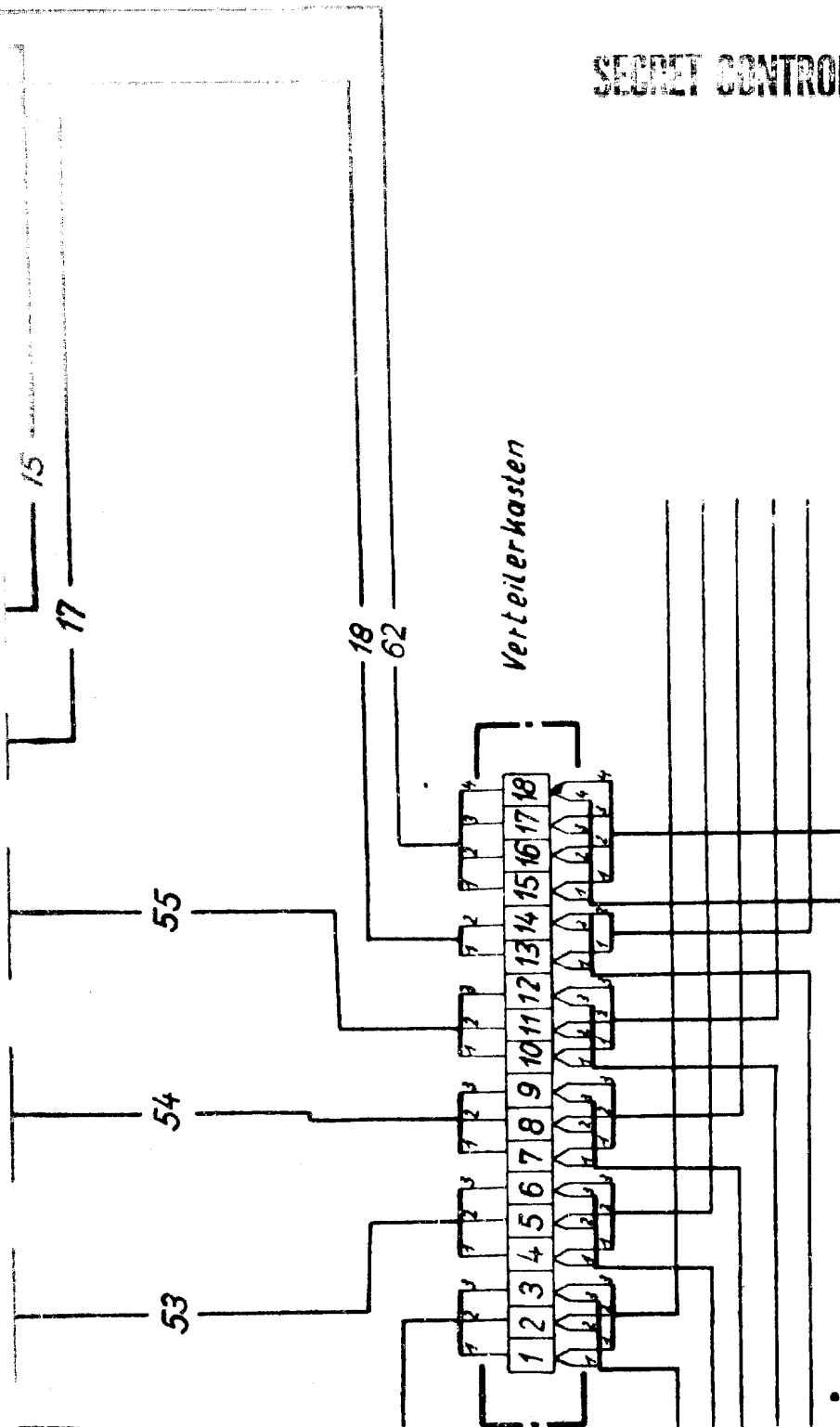
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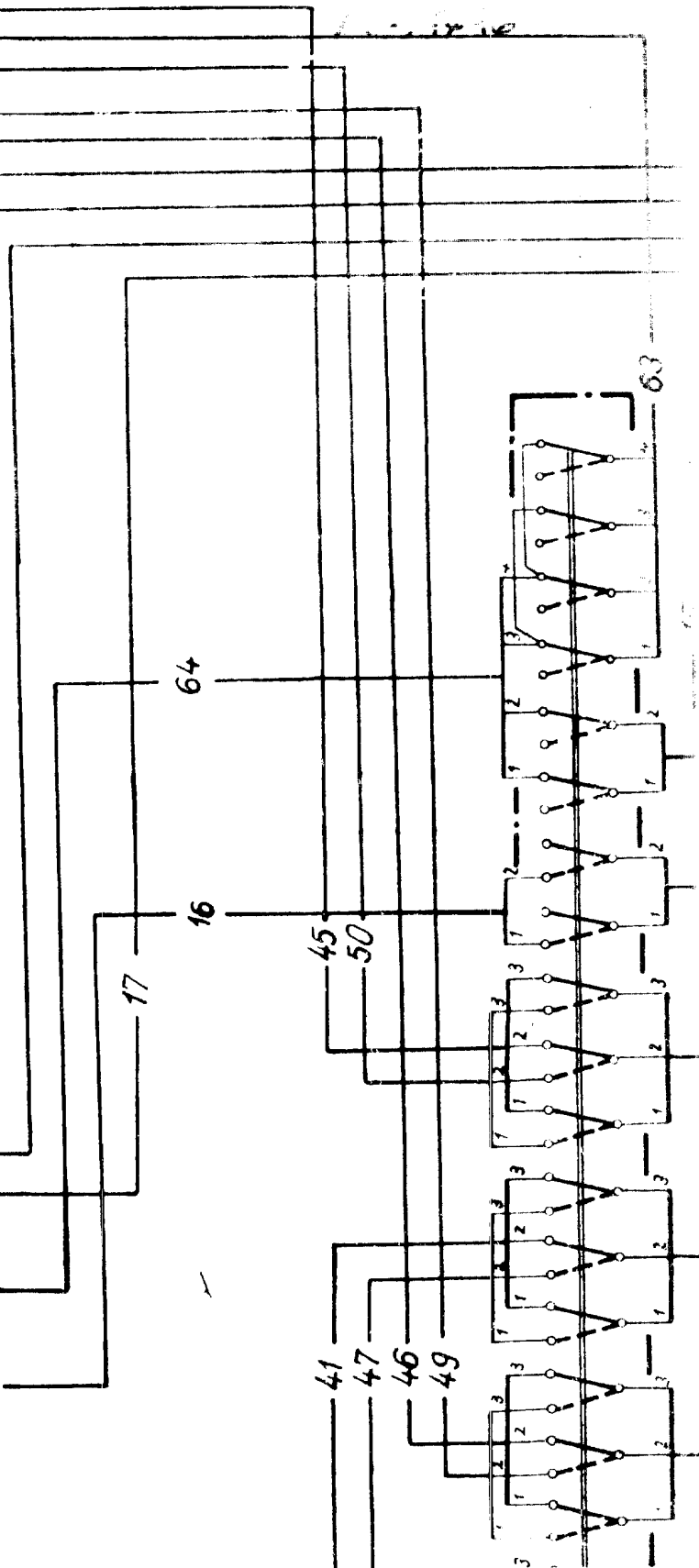
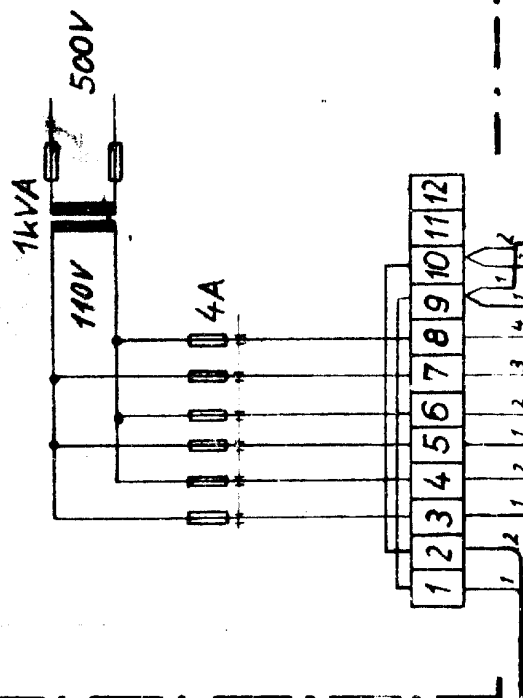
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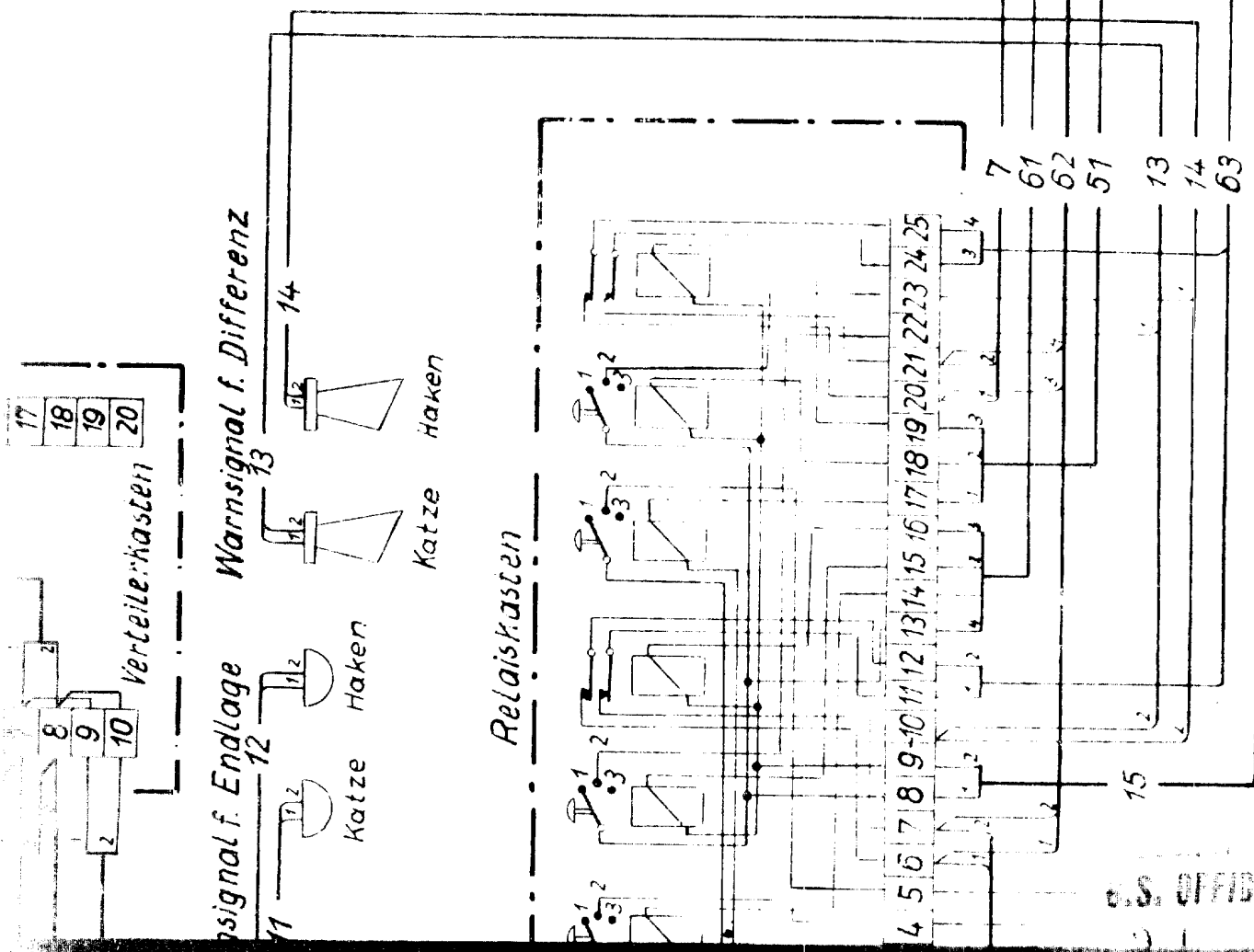
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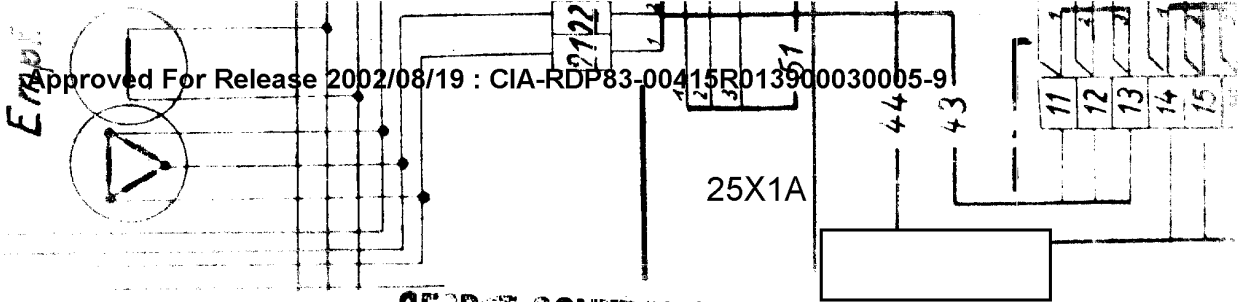
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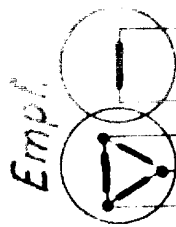


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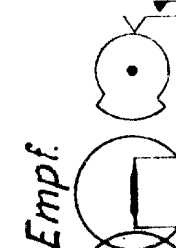


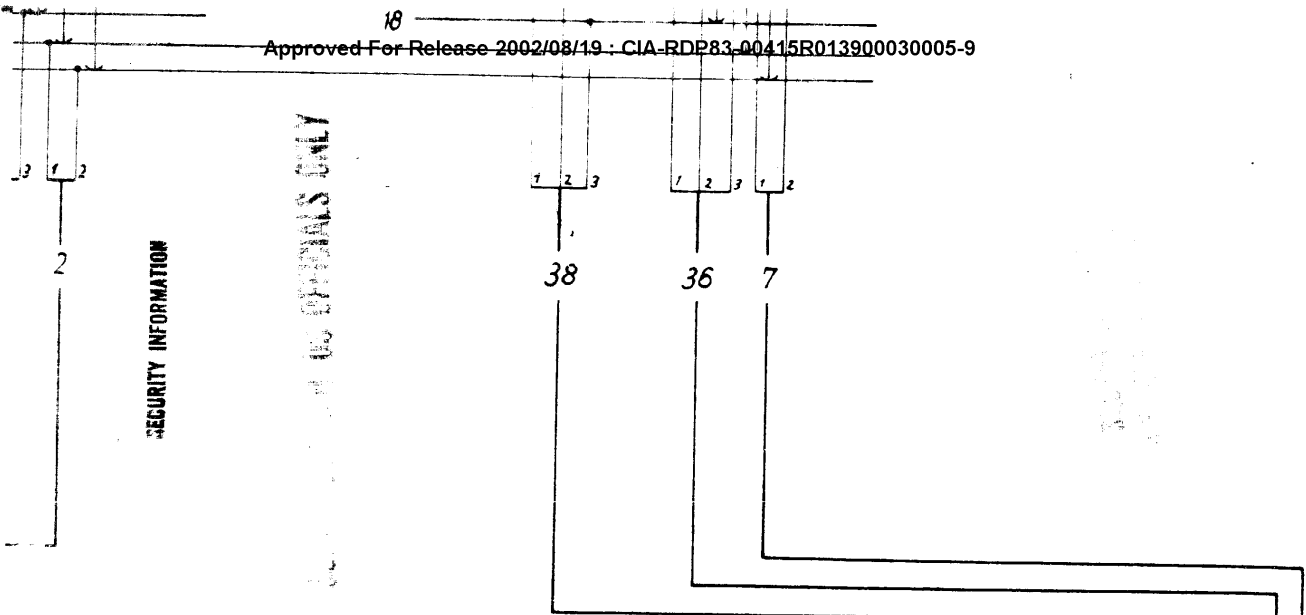
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Fein-Diff-Empl.



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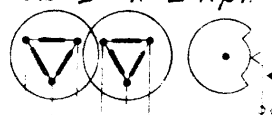




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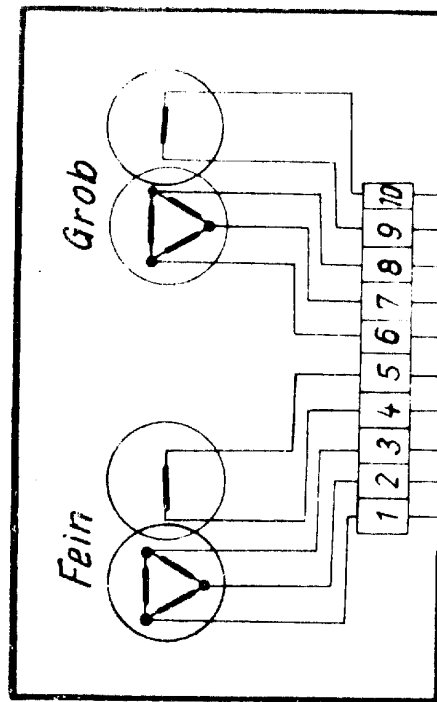
Grob-Diff-Empf.



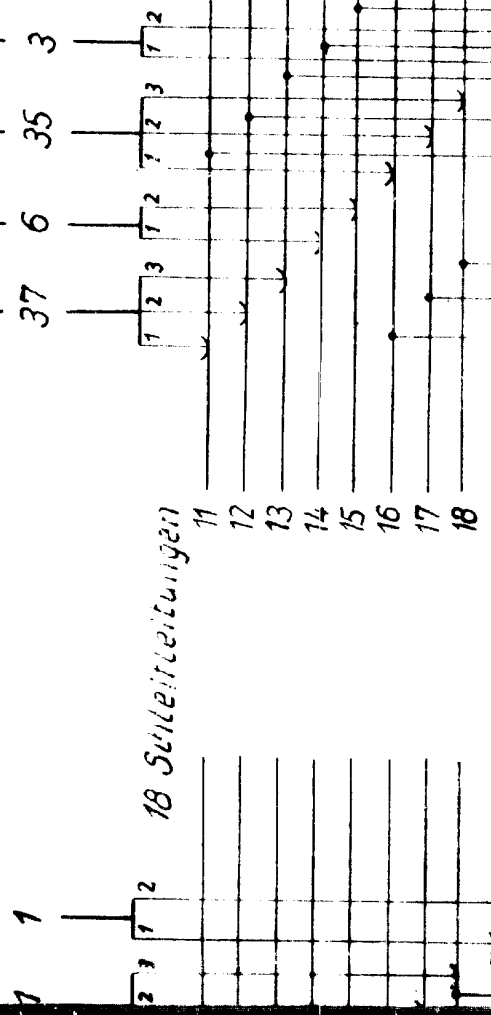
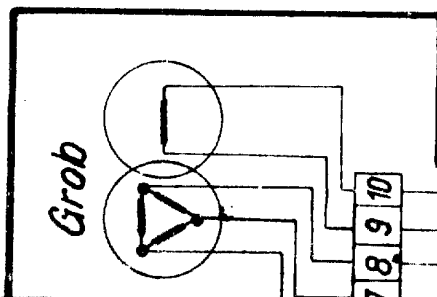
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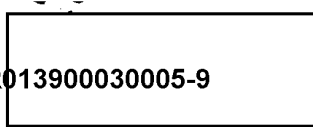
Lasthakenweg - Geber
6551006 - 00001



Geber
0001



Verteilerkasten



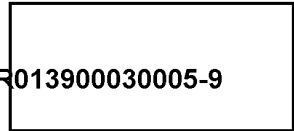
25X1A
15
17
63

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Verbindungskabel

SECRET
PS 8.5.00



25X1A

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64

Umschalter

Führungskran

Parallel- oder
Einzel-Kran

42
48

9

10

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- 1. Rube
- 2. Wadding
- 3. Allen

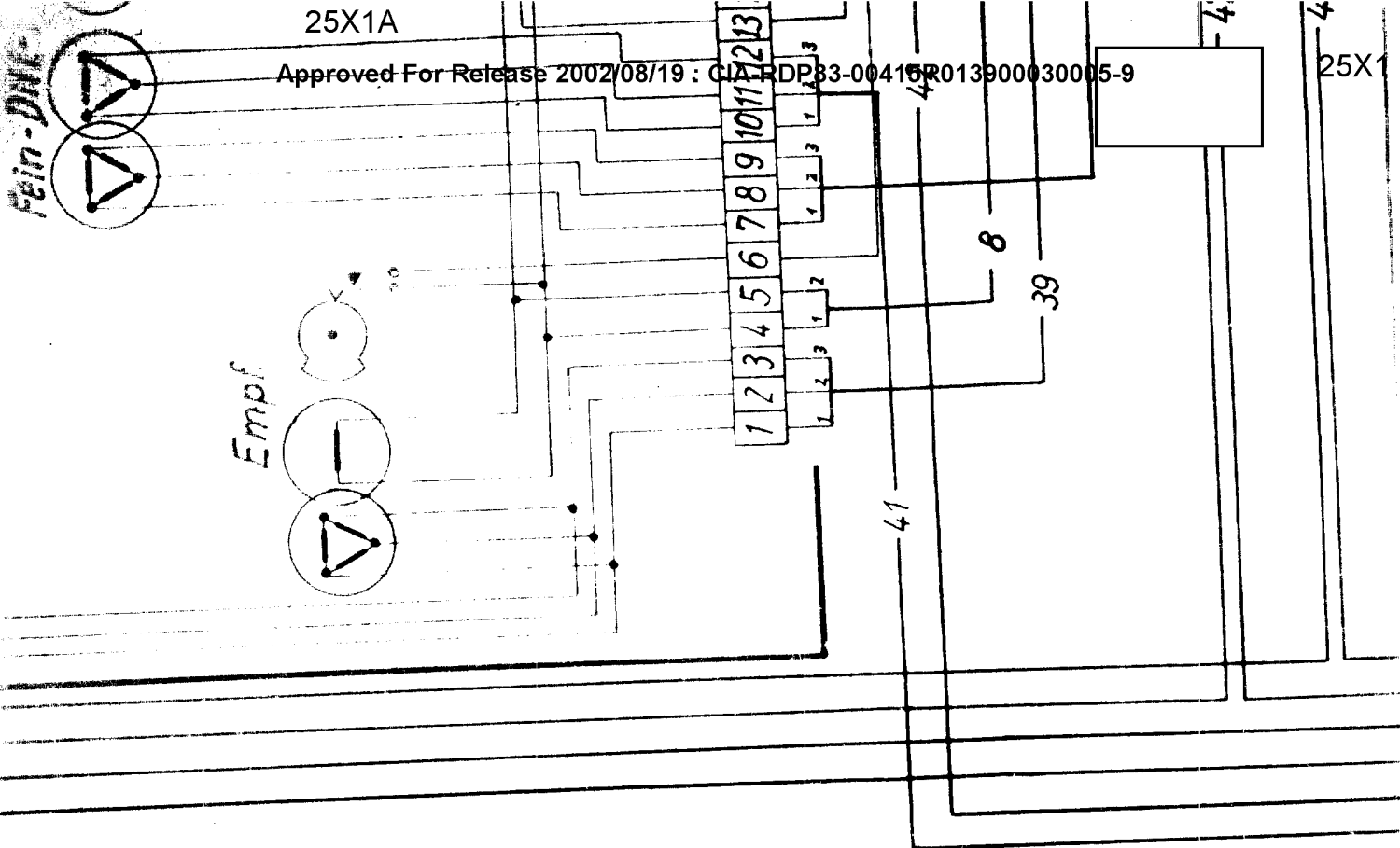
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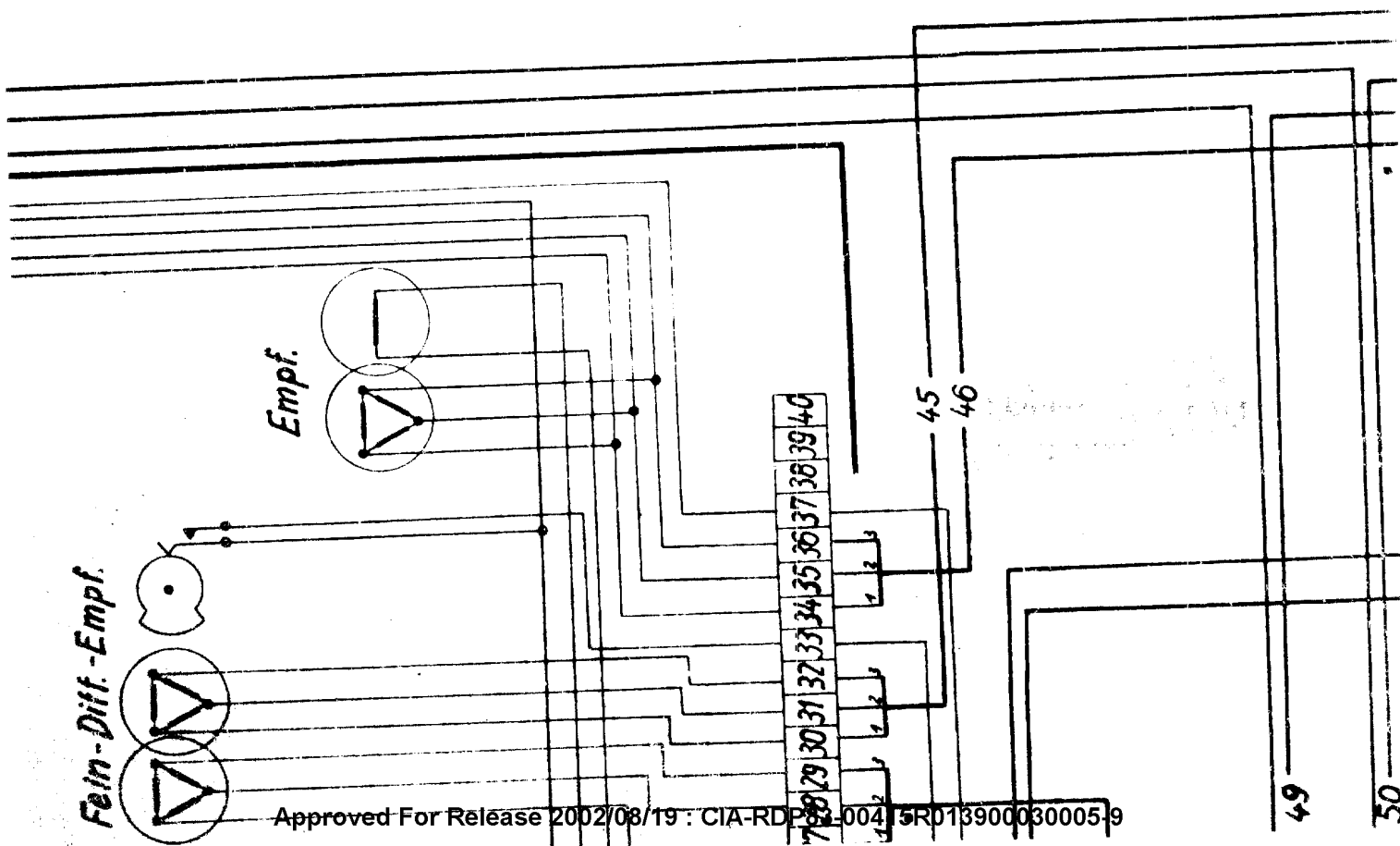
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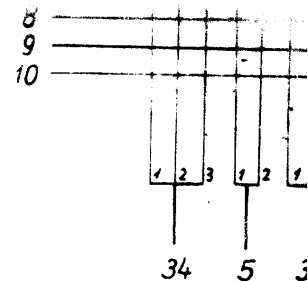
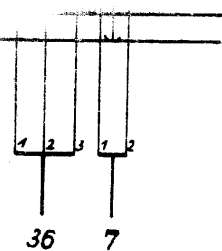


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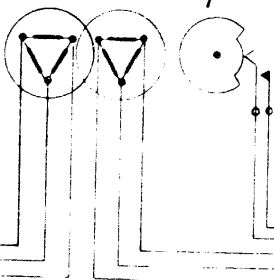
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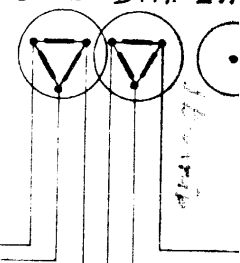
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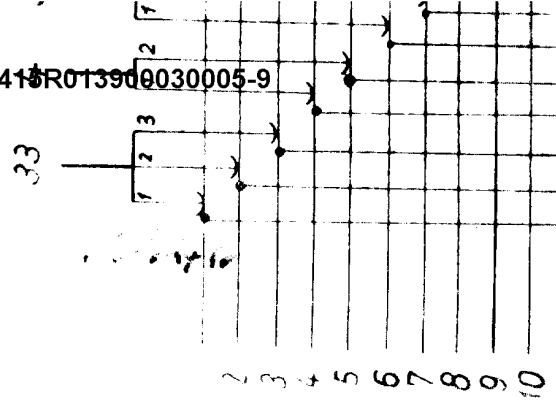
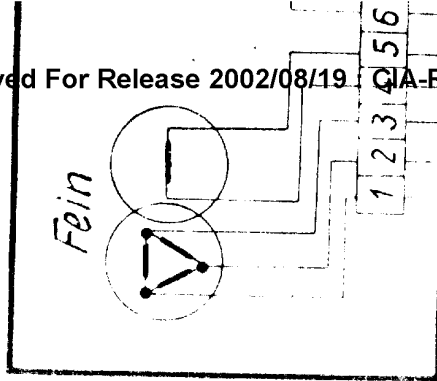
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Katzfahneveg
6551005-0

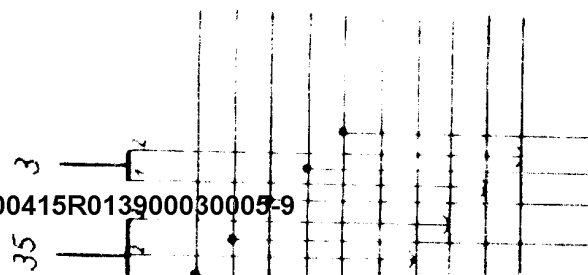
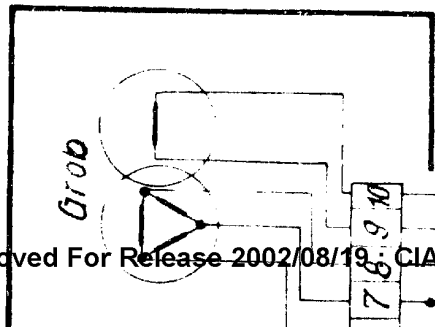


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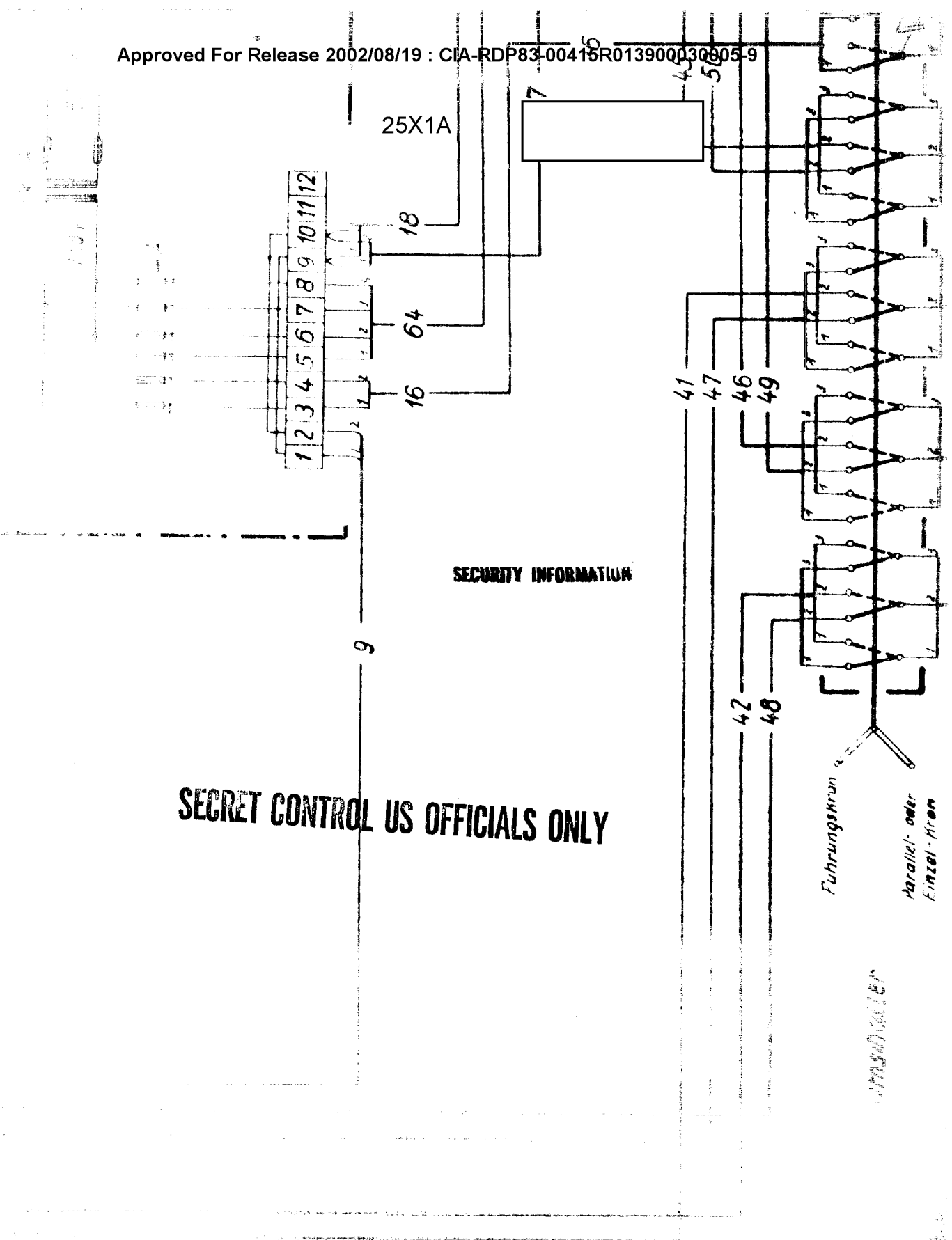
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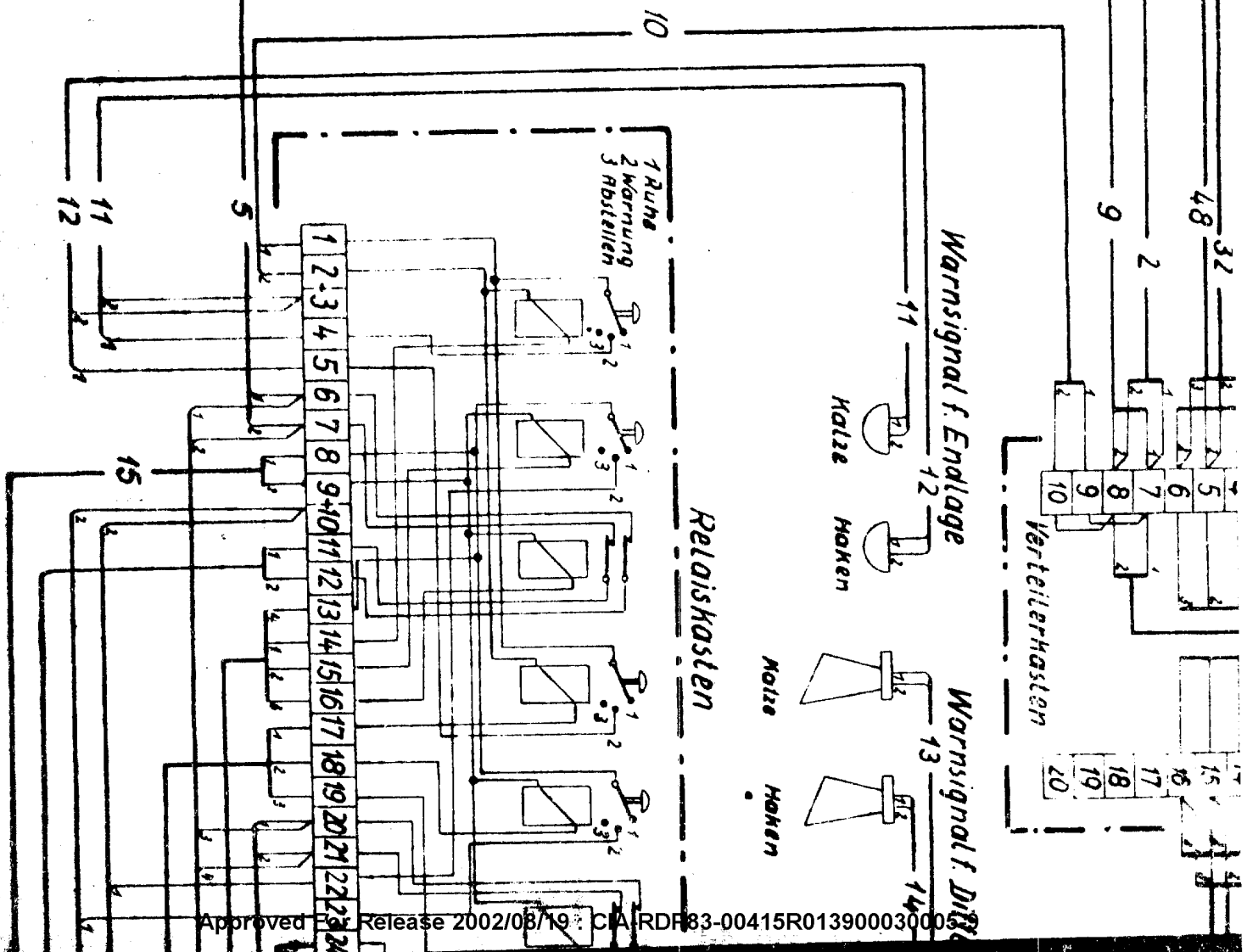
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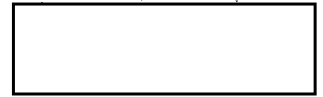
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Die anderen Geräte sind Lieferung vom Punktwerk Hagernd*

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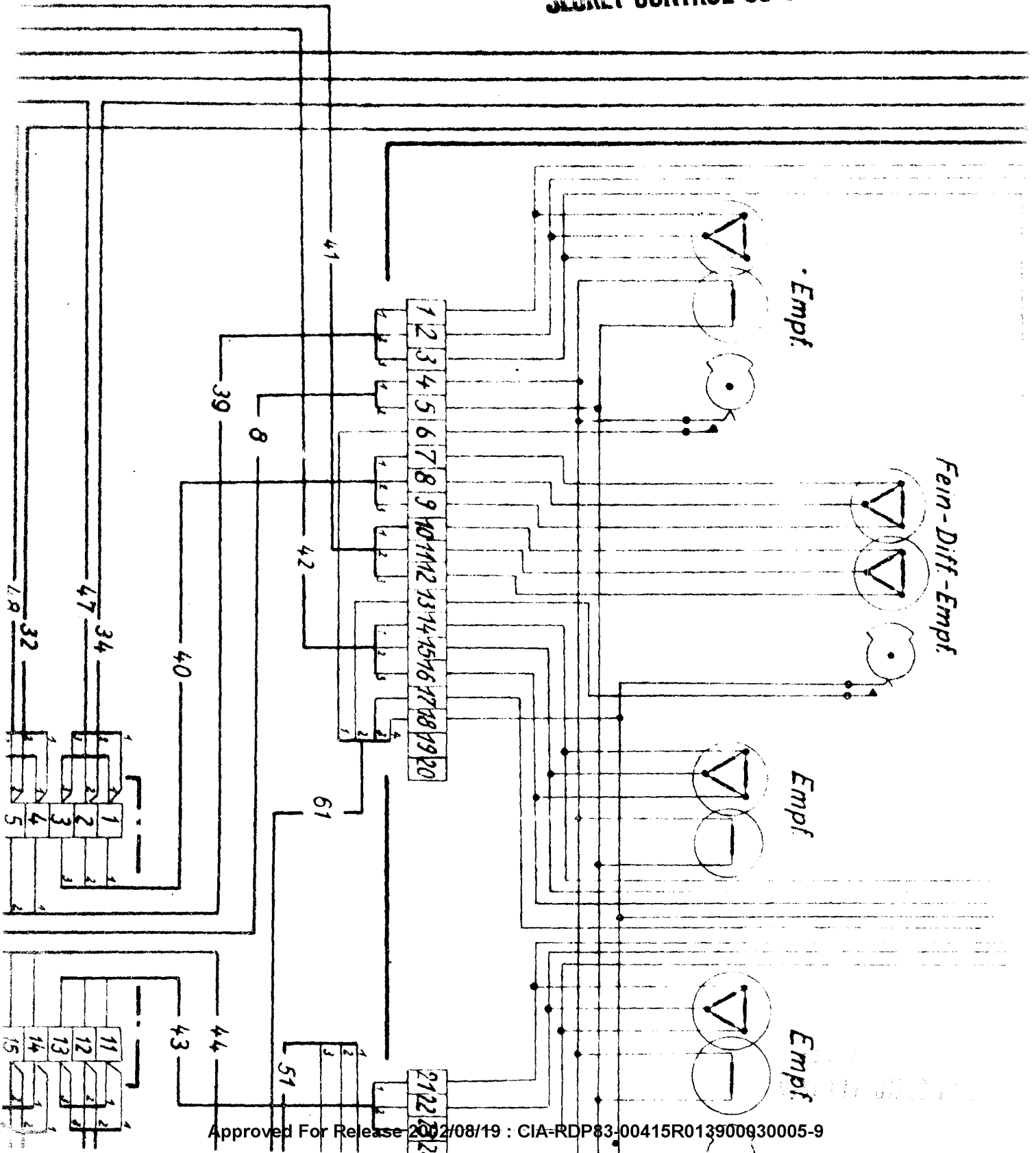
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1 2 1 2 1 2
34 5 32

Grob-Diff-Empf



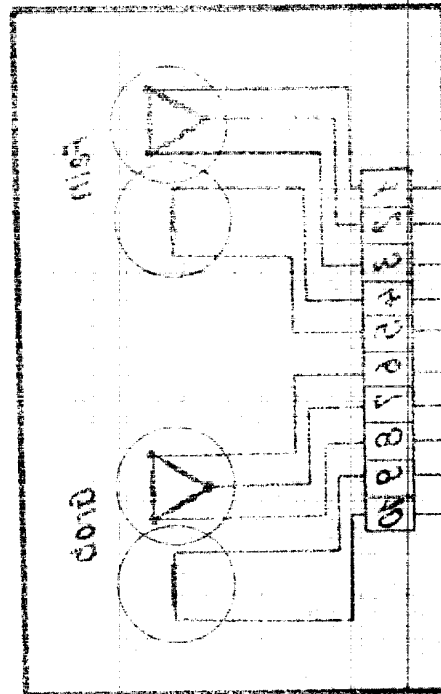
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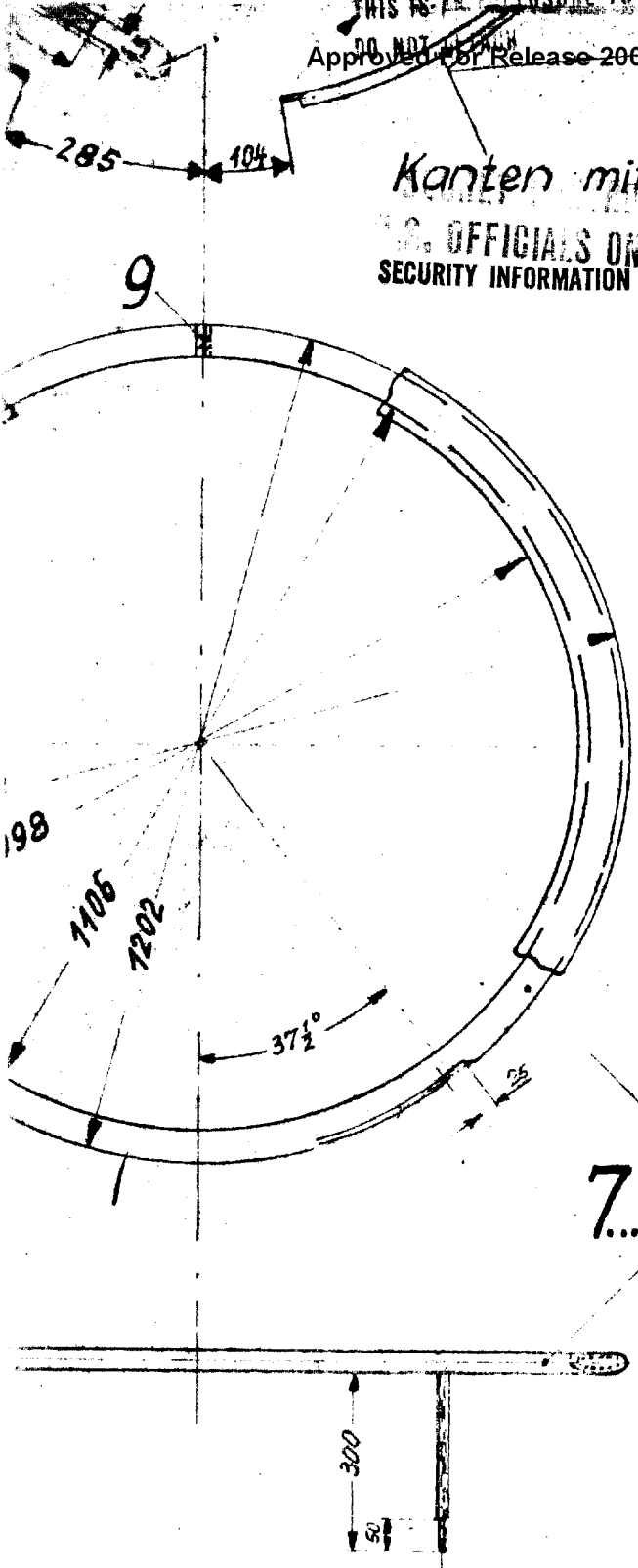
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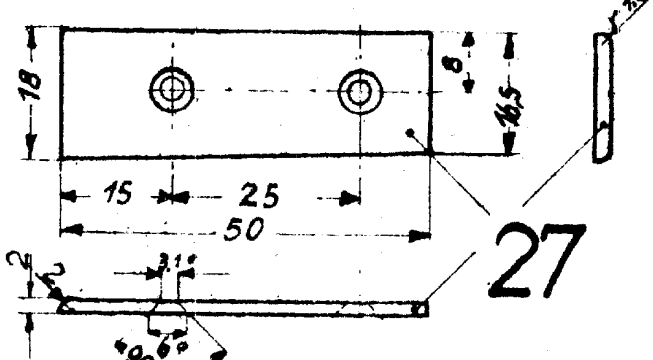
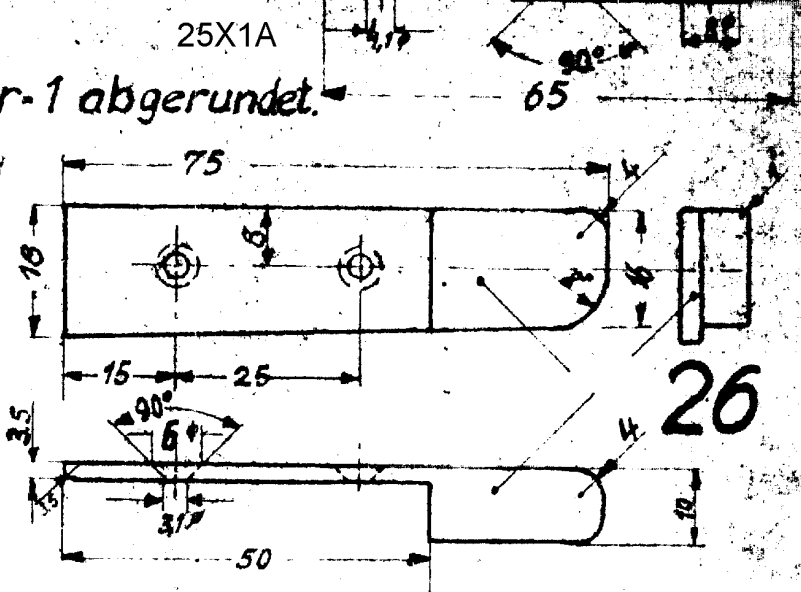
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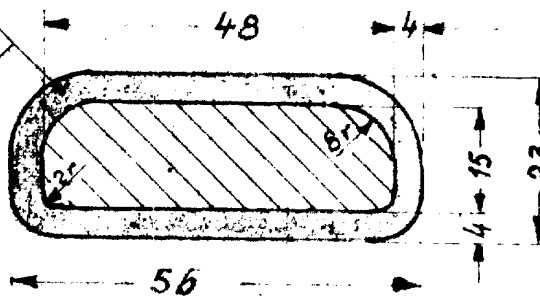
Kanten mit r-1 abgerundet.

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Schnitt A-B

7.9



Büro-Zechnng. 1

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St.

1100 PERSUR 300017-20
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 Jede Vervielfältigung oder Vervielfältigung durch
 Dritte Personen ist ohne unsere
 Genehmigung verboten.

Nr.		Änderung		Tag	Name	Gepr.	Nr.	Änderung		Tag	Name	Gepr.			
Rechteil				Werkstoff				Rechteil				Rechteilgewicht			
Halbzeug															
Abmessung															
Gezeichnet		Geprüft		Gesehen		Normgepr.		Oberspgg-und Regel- Spulen						Maßstab	
Tag		Tag		Tag		Tag								1:1 1:10	
Name		Name		Name		Name									
Paßmaß		Abmaß		Paßmaß		Abmaß									
Freimaßtoleranz		Freimaßtoleranz		Freimaßtoleranz		Freimaßtoleranz									
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KARL LIEBKNECHT															
Ersatz für:												Ersatz durch:			

241 764

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1 2 6 7.9 11

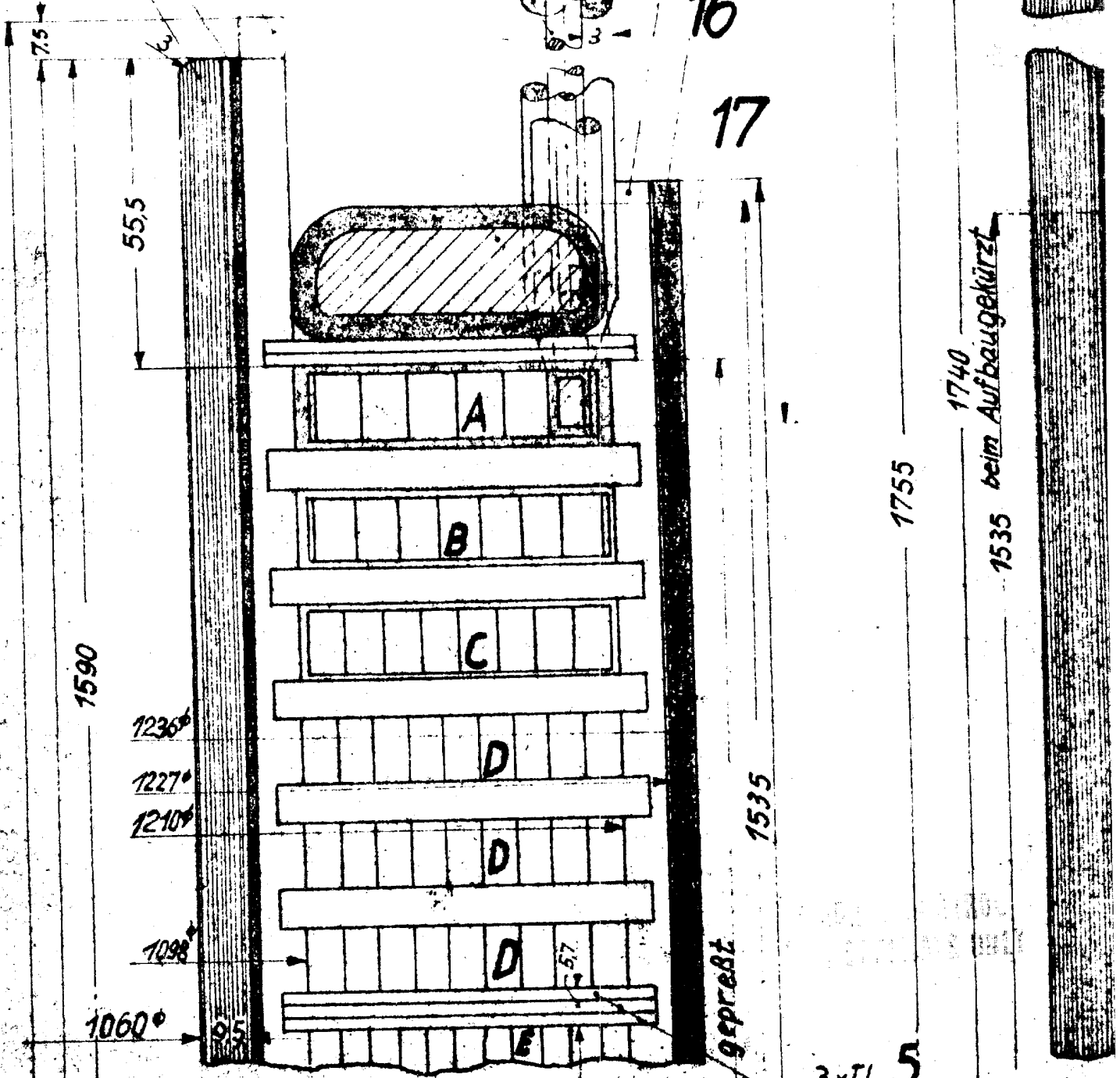
15

ca 850 (ca 250mm isoliert)
(ca 600mm blank)

16

17

SECURITY INFORMATION





Oberer Keilringanschluß
(bei den Abltg. mit X₈ verbunden)

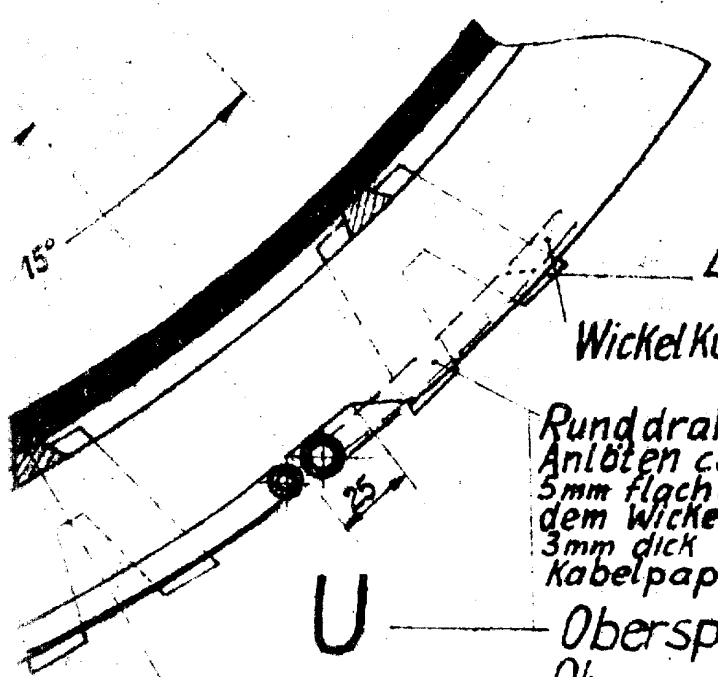
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29

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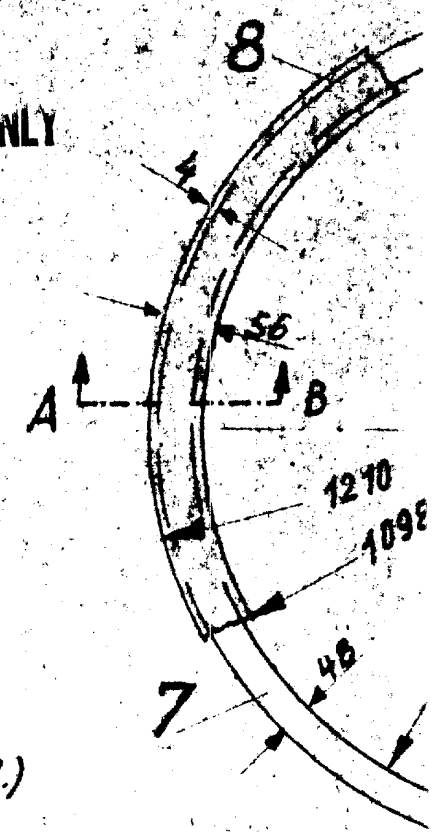
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Oberspg. Anschluß UVW

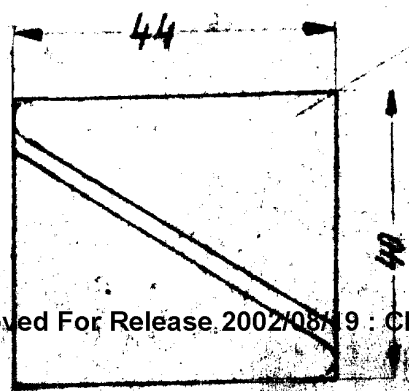


Runddraht TL 11 vor dem Anlöten ca. 100 mm lang auf 5 mm flachgeschlagen und dem Wickelprofil angepaßt. 3 mm dick einseitig mit 0,12 Kabelpapier isoliert.

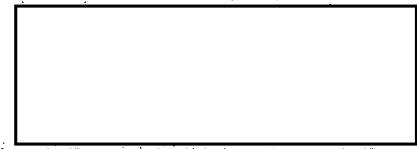
U — Oberspg. oben
X₉ — Oberspg. unten:
Anschlußfahne Teil 10



Schnittplan f. Teil 25



25X1A



FBM 31208
PARUF 5001/150

zur 35 mm flachgeschlagen, umgebogen und angepaßt nach Zeichnung
steigend isoliert und dann mit Spulendraht verlötet! Vergleich

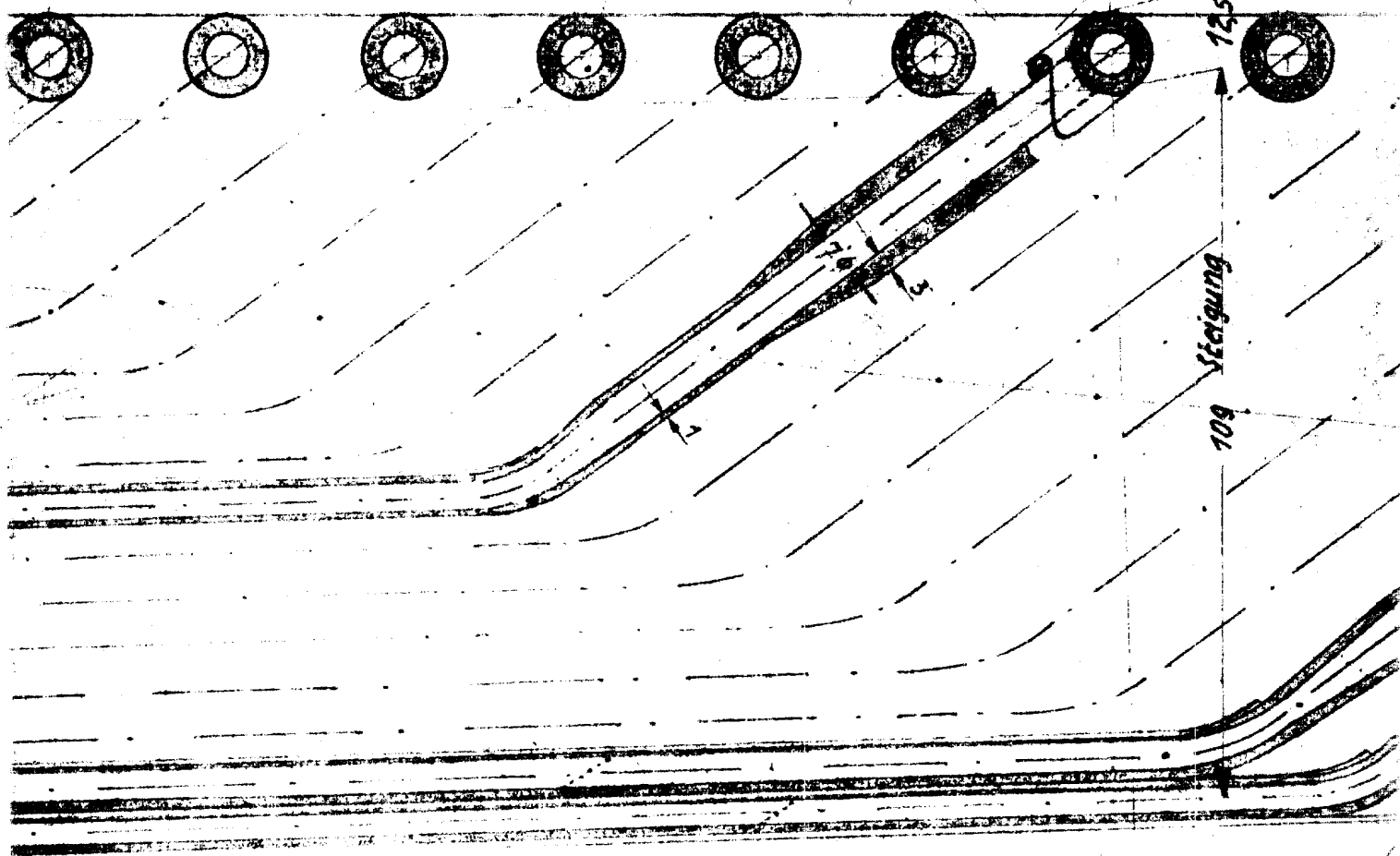
15x26,5x35

26,5

32

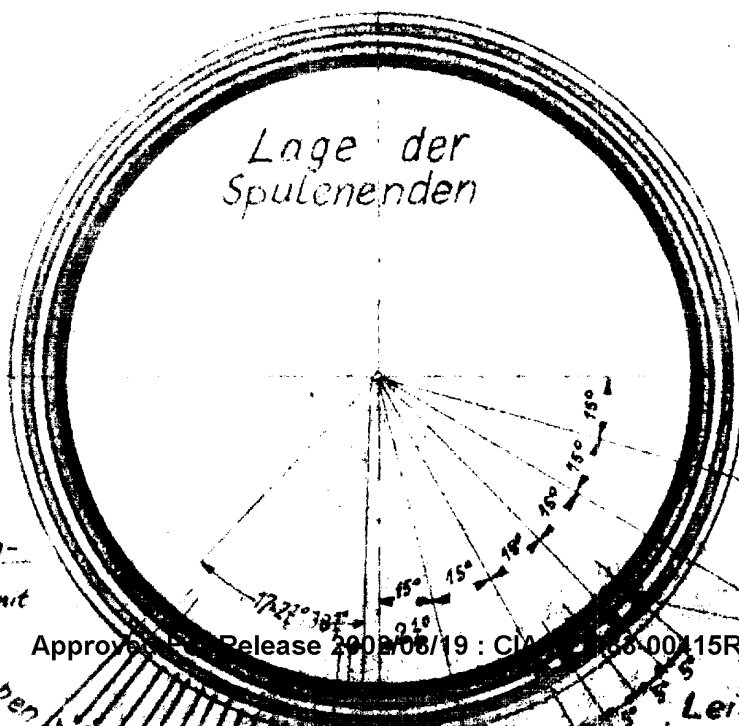
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5



260

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Unterer Keilring-
anschluß
(bei den Ablg. mit
4a verbunden)

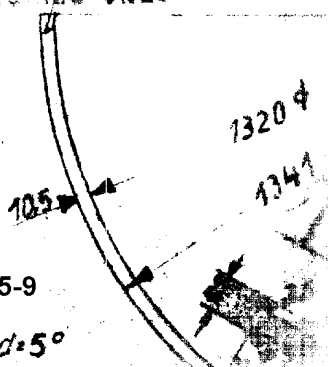
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20

Leistenabstand 5°

23

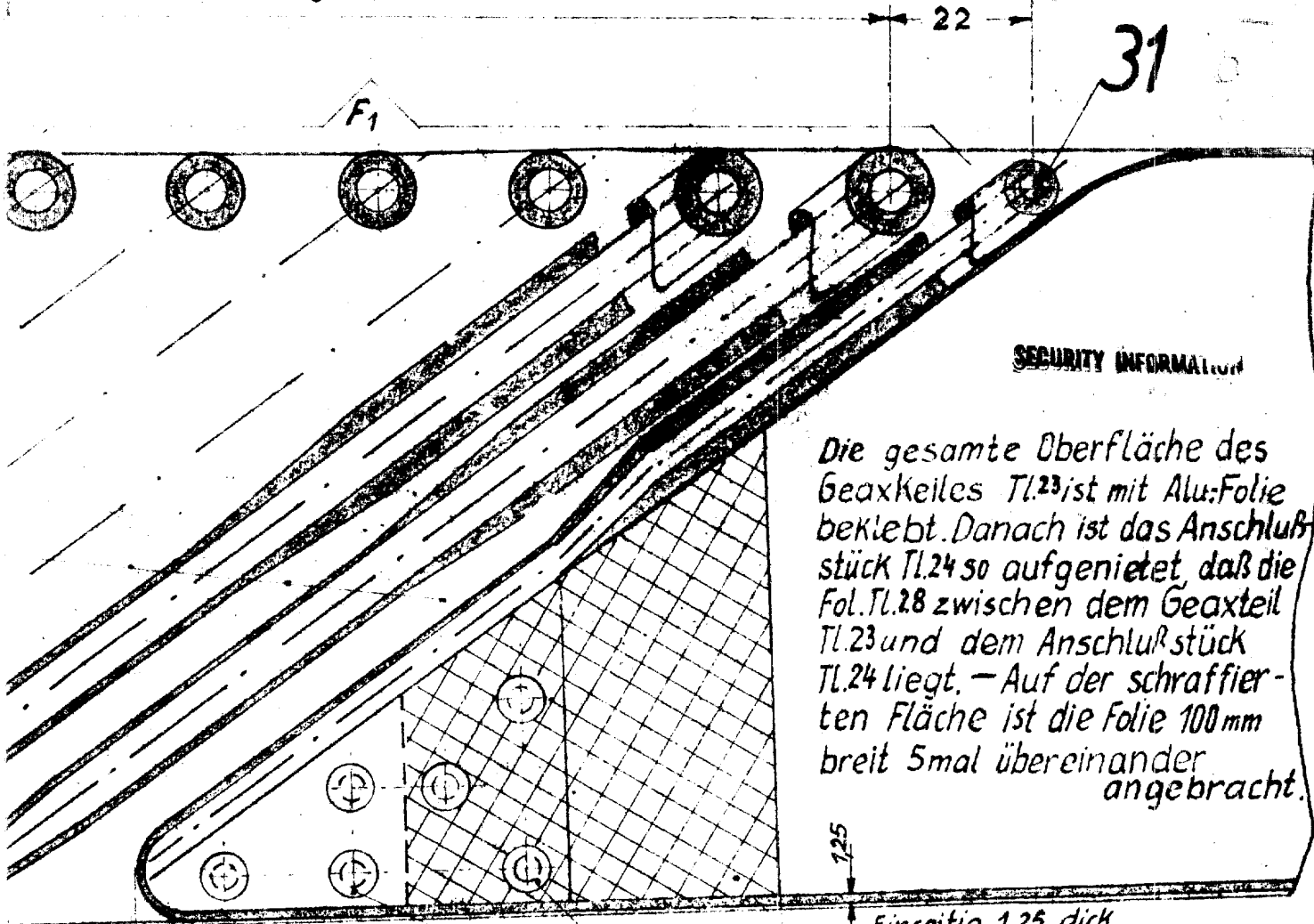
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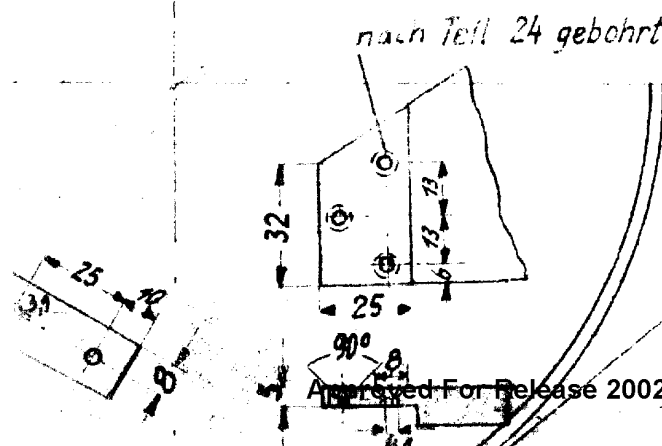
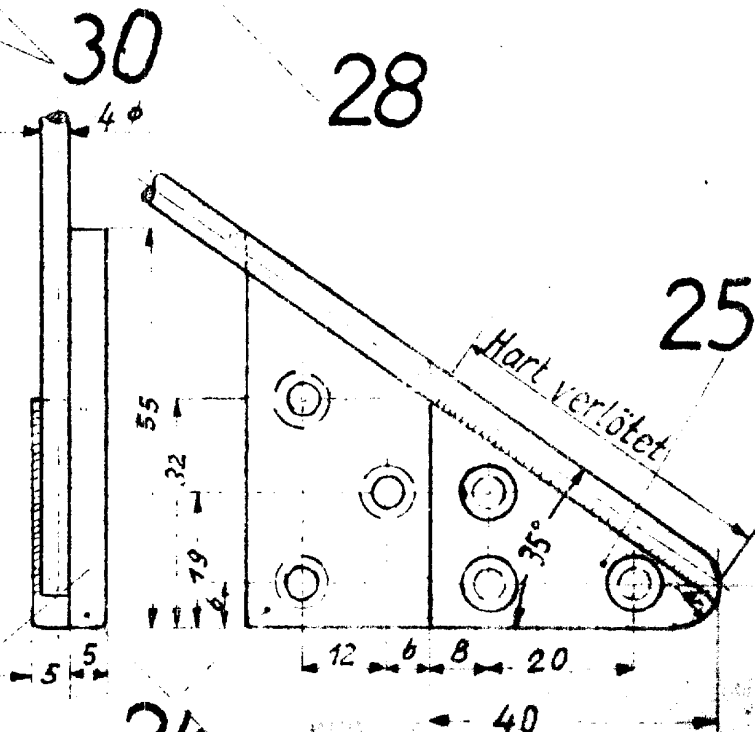
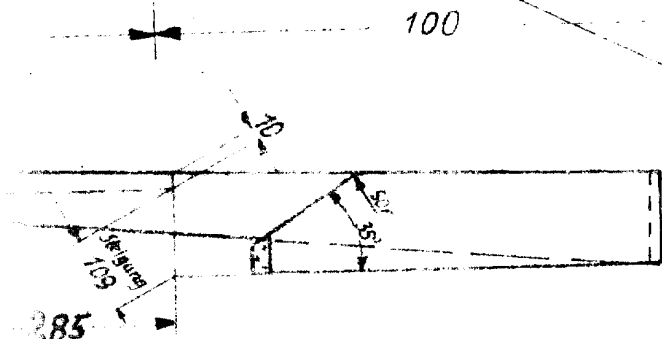
25X1A

Teil 32 im Längsschnitt d. Regelspule

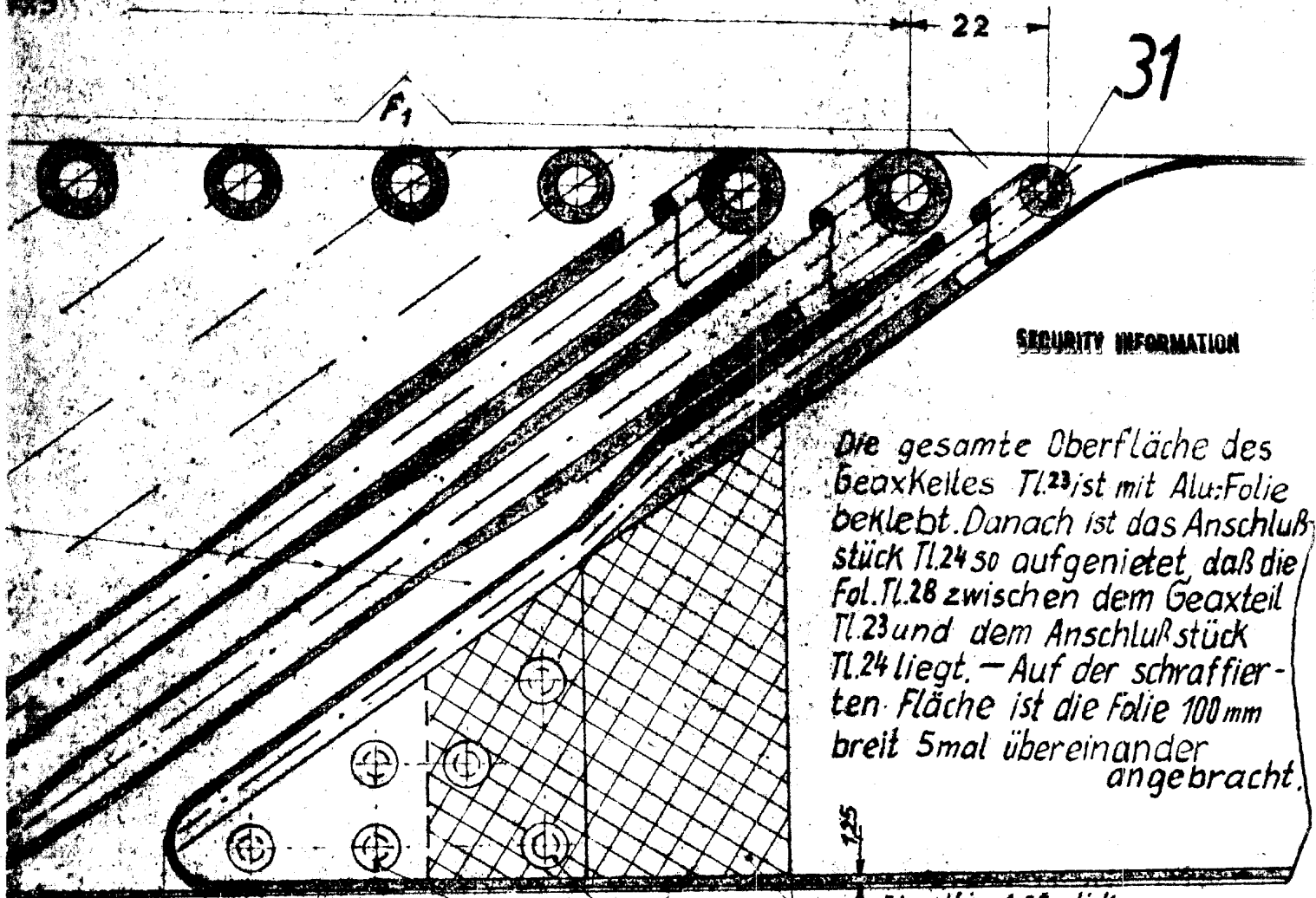


Die gesamte Oberfläche des Geaxkeiles TL.23 ist mit Alu-Folie beklebt. Danach ist das Anschlußstück TL.24 so aufgenietet, daß die Fol. TL.28 zwischen dem Geaxteil TL.23 und dem Anschlußstück TL.24 liegt. — Auf der schraffierten Fläche ist die Folie 100 mm breit 5mal übereinander angebracht.

Einseitig 1,25 dick mit Kab. Pap. 0.12 isoliert



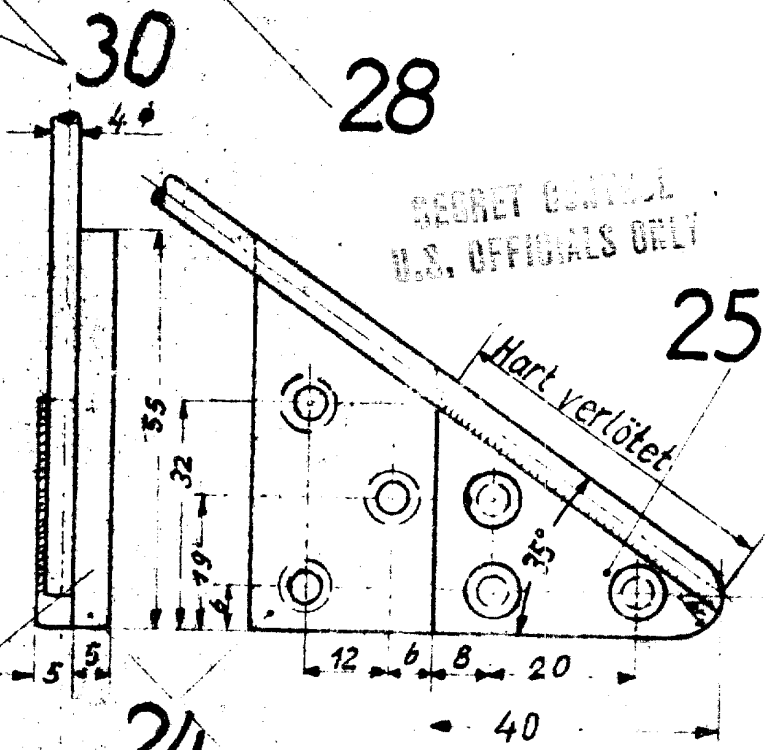
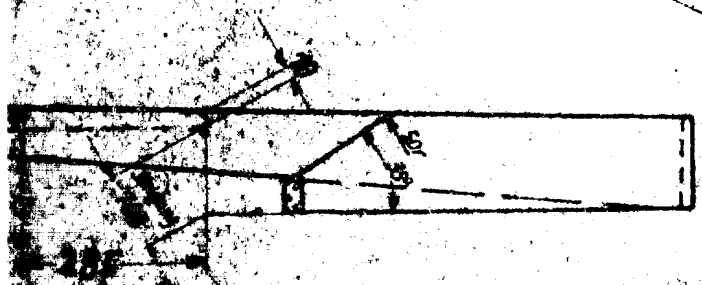
Teil 32 im Längsschnitt d. Regelspule



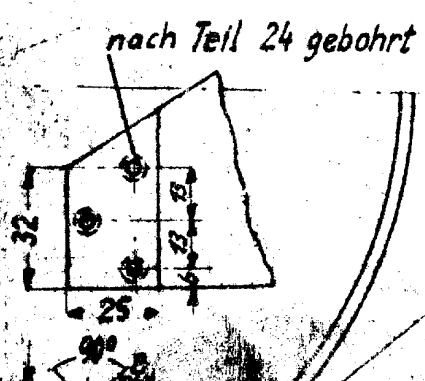
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Die gesamte Oberfläche des Geaxkells TL.23 ist mit Alu-Folie beklebt. Danach ist das Anschlußstück TL.24 so aufgenietet, daß die Fol. TL.28 zwischen dem Geaxteil TL.23 und dem Anschlußstück TL.24 liegt. — Auf der schraffierten Fläche ist die Folie 100 mm breit 5mal übereinander angebracht.

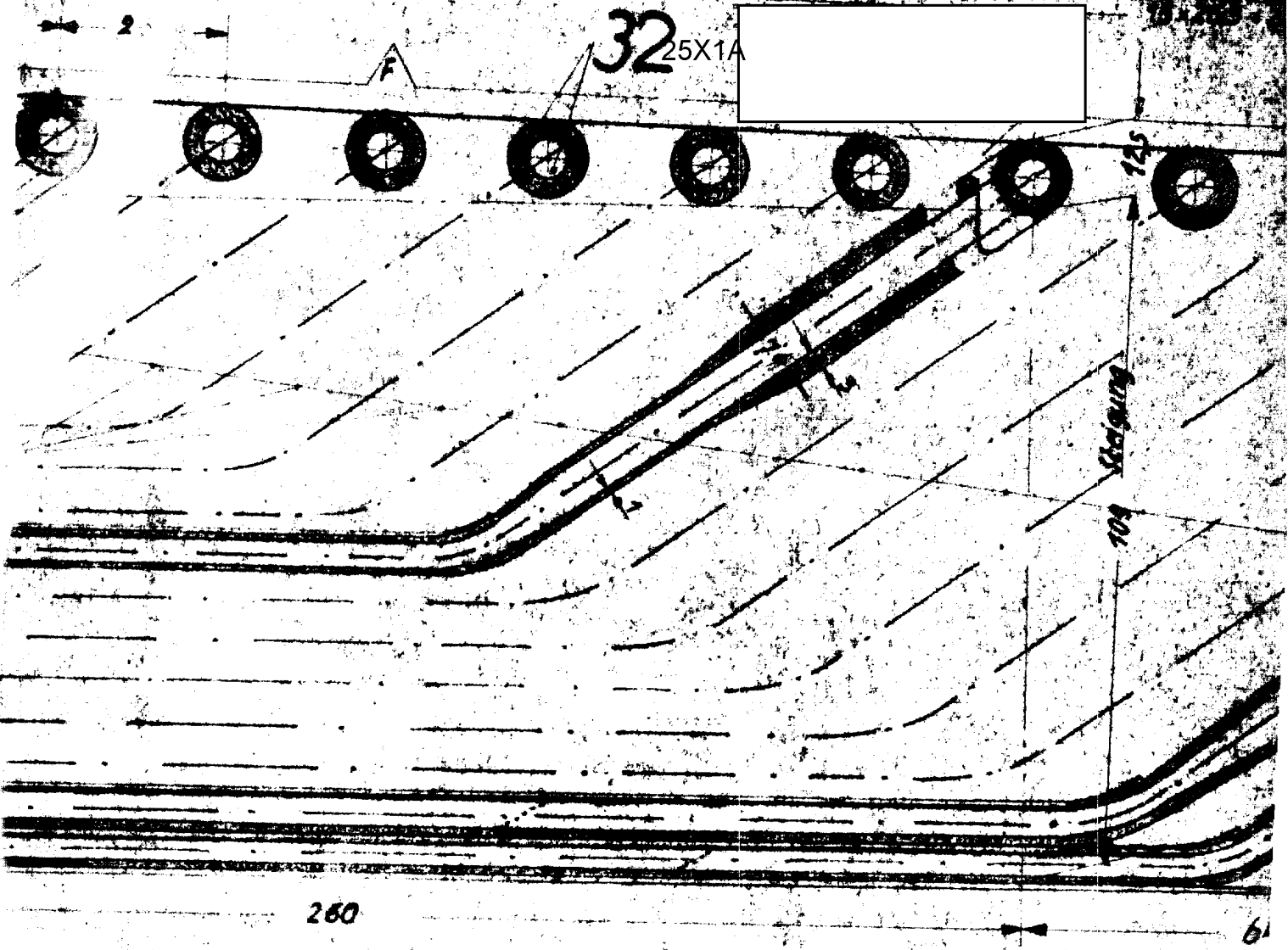
Einseitig 1,25 dick mit Kob. Pap. 0.12 isoliert



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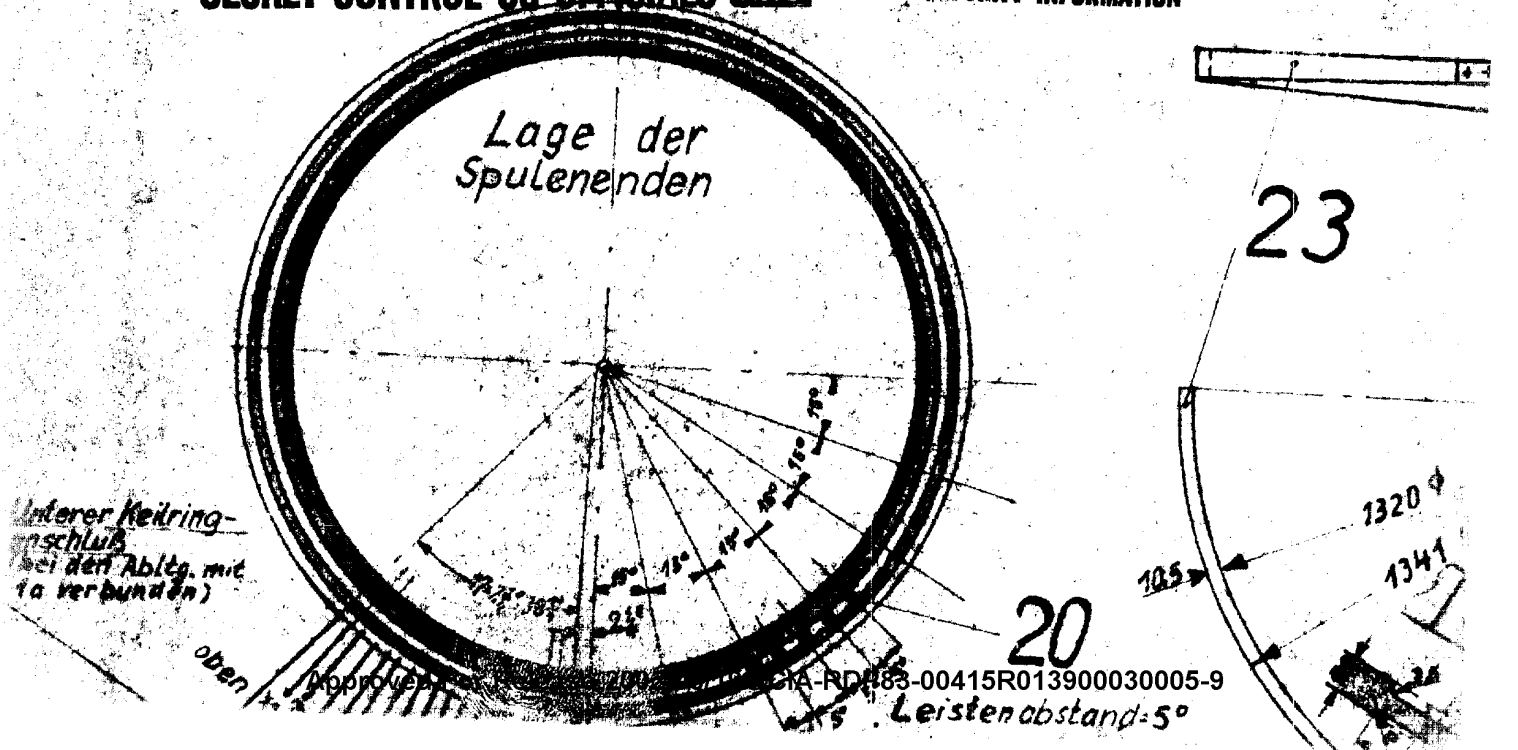


Runddraht 11 32 vor dem Anlöten ca 80 mm
 auf 15 mm Flachgezogen, umgebogen und angepaßt nach Zeit
 steigend isoliert und dann mit Spulendraht verlötet
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TL 20 und TL 27 mit dem Geaxteil 7/73
 vernietet, daß die Alu-Folie zwischen
 den Metallstücken und dem Geaxteil liegt.

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25X1A

Auf der schraffierten Fläche liegen 5mal Alu-Folie

100

265

2

hart verlötet

Alle Hohlräume mit
 Preßspan ausgefüllt und verkle

X 1a-8a
 1-B
 ca 200

ca 100

32

(8a-1a) F F₁ (1-B)

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1480

25X1A

12 Windungen

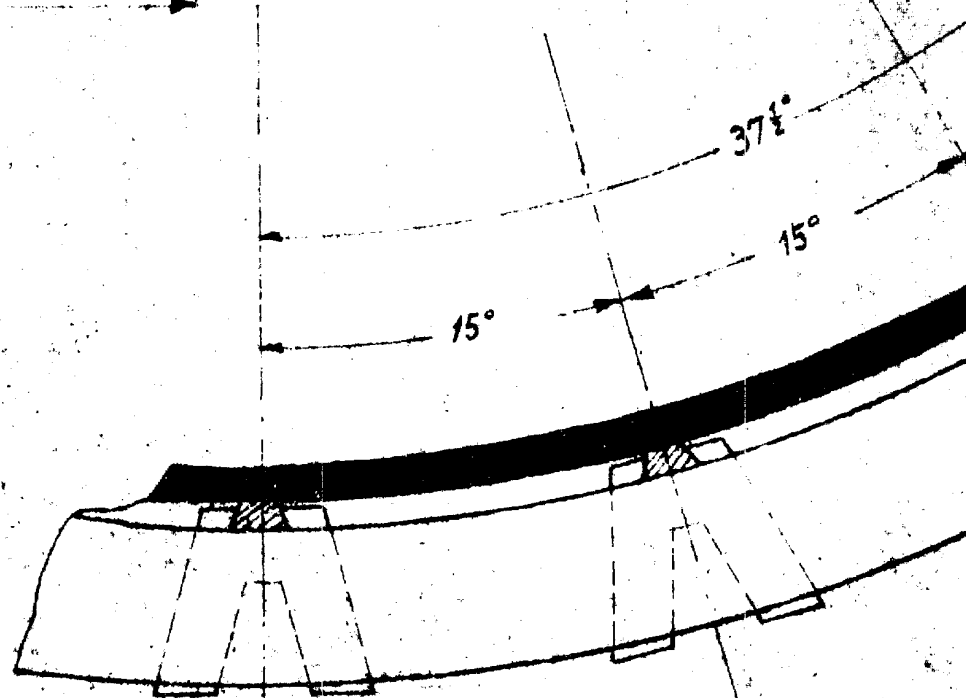
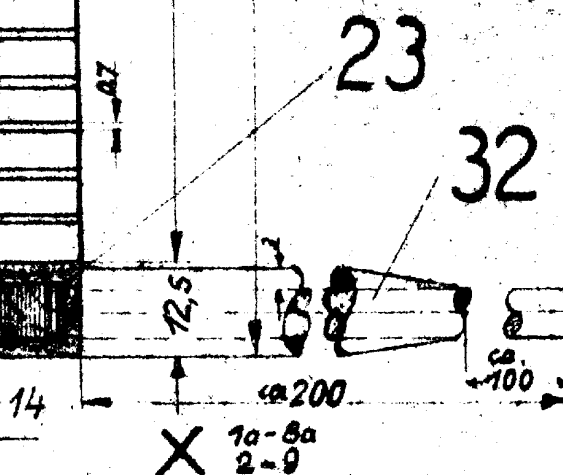
(1a-8a) F, F(9-2)

Schaltung der Regelspulen
F = 13 Windungen; F₁ = 12 Windungen

Aufrechnung der gepreßten Spule

2 Spulen A je	14,95	•	29,9
2 Spulen B je	14,2	•	28,4
2 Spulen C je	13,4	•	26,8
6 Spulen D je	11,95	•	71,7
66 Spulen E je	11,35	•	748,1
6 Spulen E ₁ je	11,35	•	68,1
63 Zwisch. Lagen je	6,2	•	390,6
20 Zwisch. Lagen je	5,7	•	114,0

1478,6 ≈ 1479 mm



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25X1A

1250

1479

1543

1274

1288

1302

1346

SECRET CONTROL
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2xTL.
1xTL.

3 (2,374)

4 (4,164)

2xTL.
1xTL.

5 (1,914)

4

1318

23

SECURITY INFORMATION

Nach dem Pressen.
abgeschnitten

ca 370g (270/1000)
(1000 mm diameter)

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75

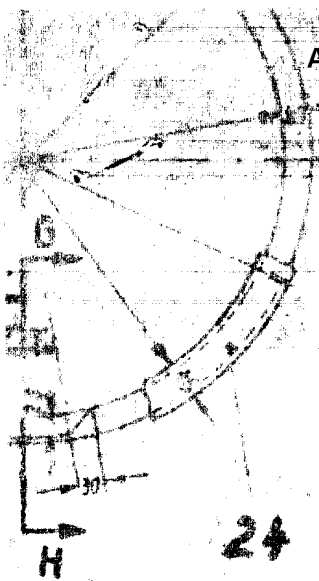
10

X9

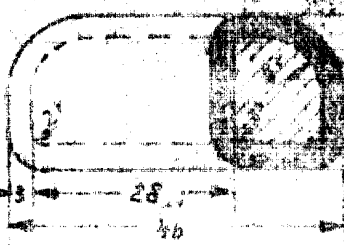
THIS IS A

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25X1A

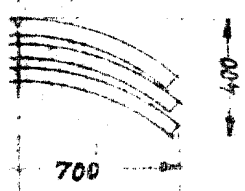


Schnitt 0-1



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Aufrechnung der gepreßten Spulen

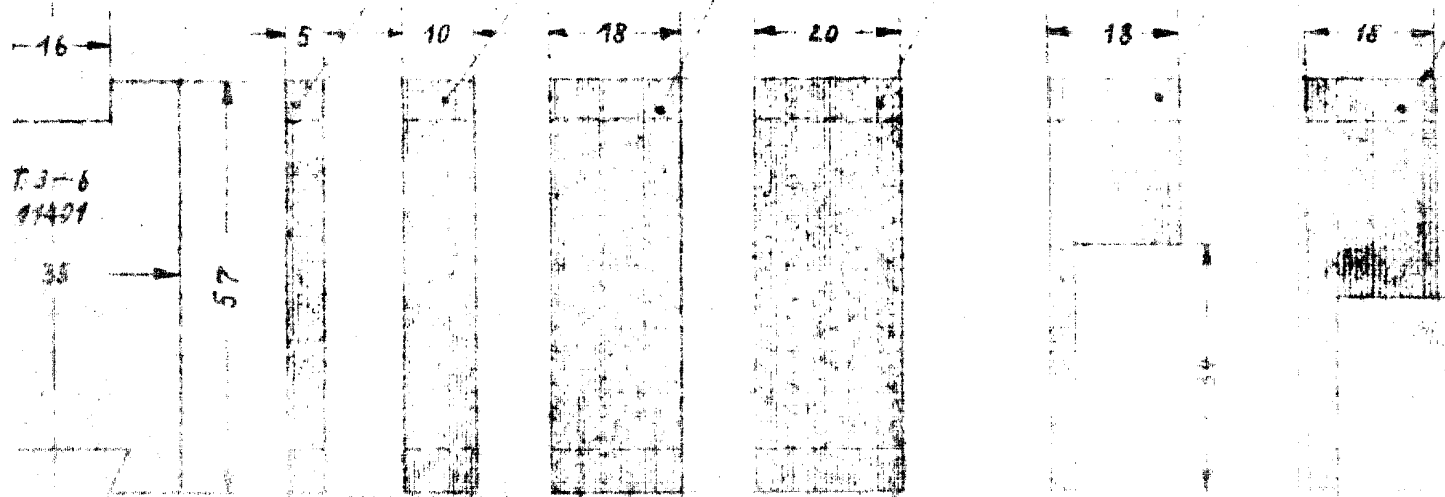
77 Drähte à 14,75 = 1135,75

3 Verdrillungsabstände à 1,5 = 4,50

73 Abstände à 4,74 (2 x 2,37) = 346,02

1486,27 = 1485

7 8 9 10 11 12



Büro-Zeichn. I

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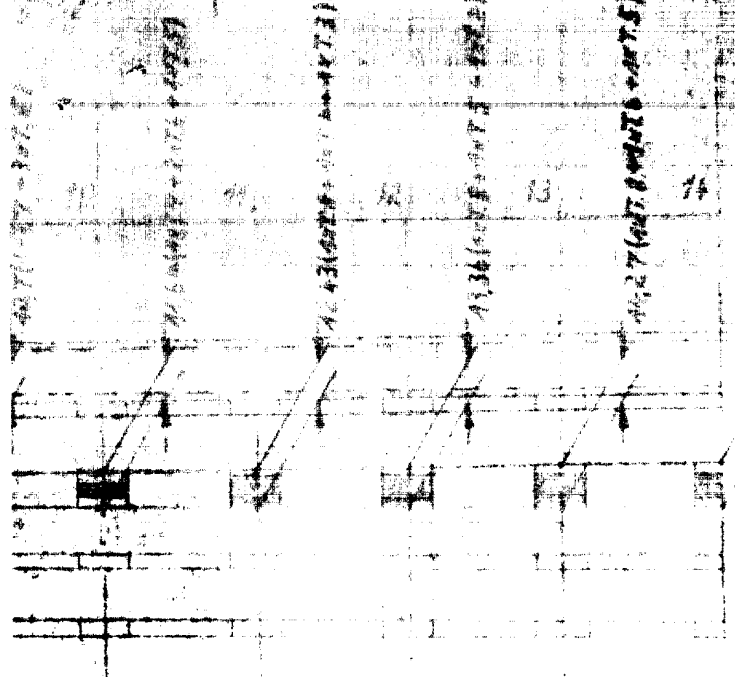
KARL LINDKNECHT

U-Spulen

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Schema der Verdünnung

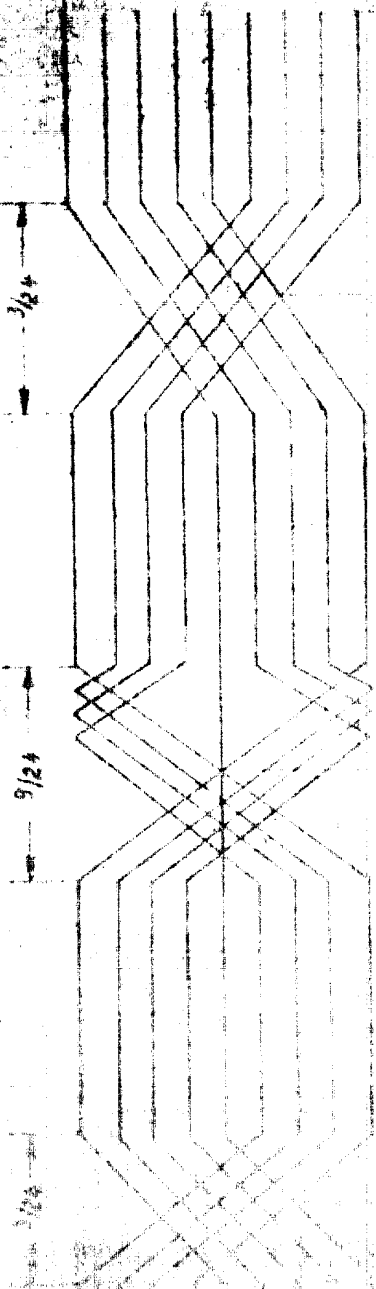
25X1A



2092 (1x7, 9 + 2, 7, 4)

11, 27 (4x7, 8x7, 6x7, 5x7, 4x7, 3x7, 2x7, 1x7)

7 6 5 4 3 2 1



18

73 Wind.

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23-25

22

95

70

46

Further reconnaissance 2nd unit
Helmets 2/12 subject

Take place terrain 28th unit
and Helmets 2/12 subject

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25X1A

2.5

95

6550

1

685°

706°

5

2.6

1755

2

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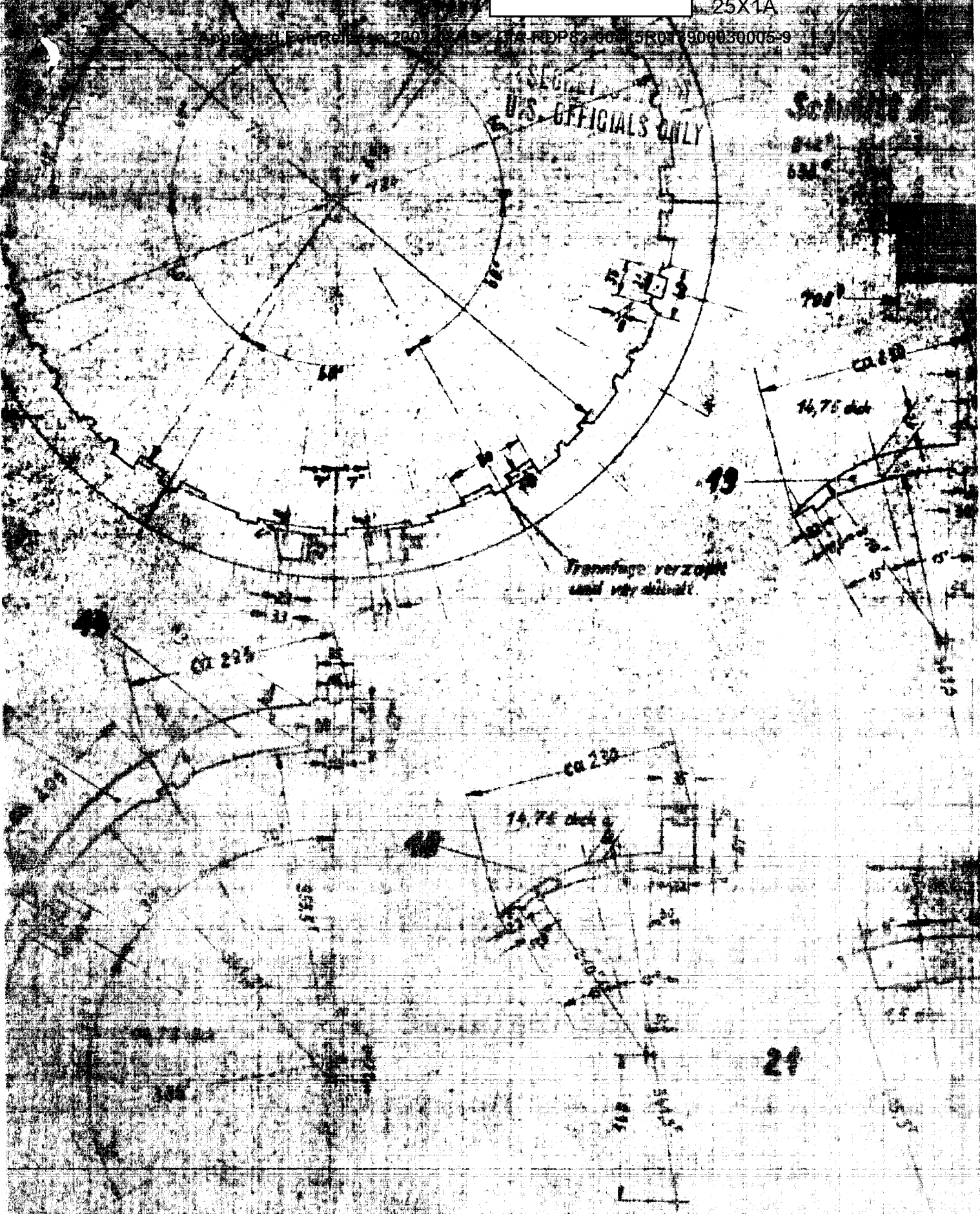
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Spule K

U = 6.6 X 10

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Schmitt



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25X1A

2x6

14+17

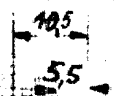
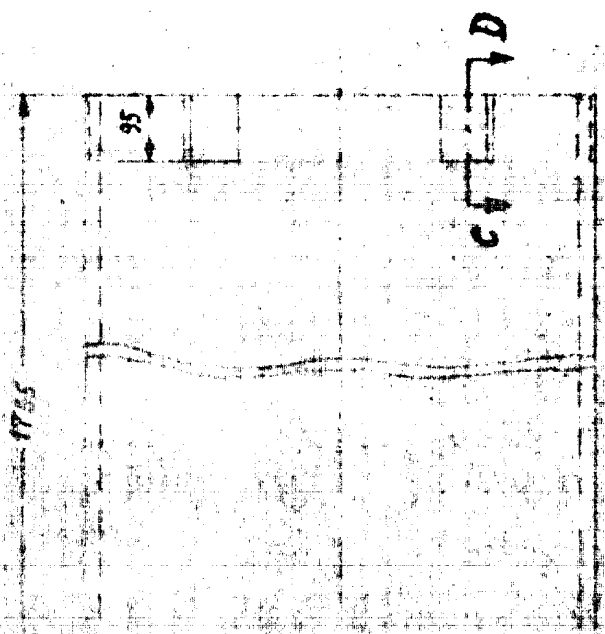
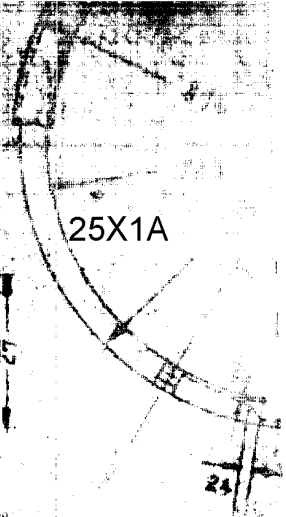
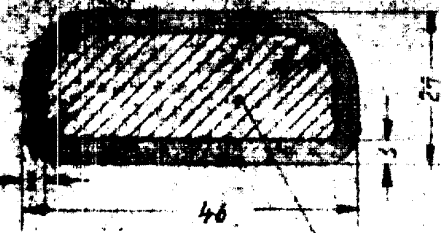
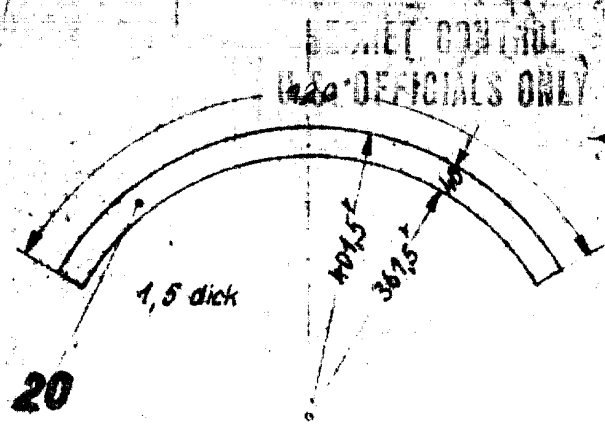
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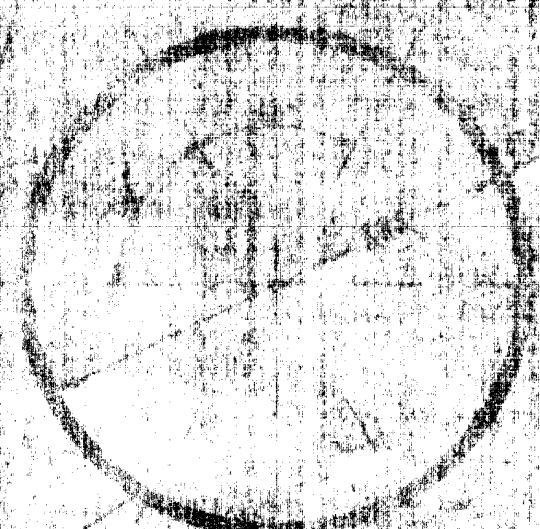
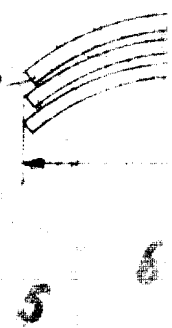
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1

2



Zuschnitt für T.20



1(9.72) 2(1.3)

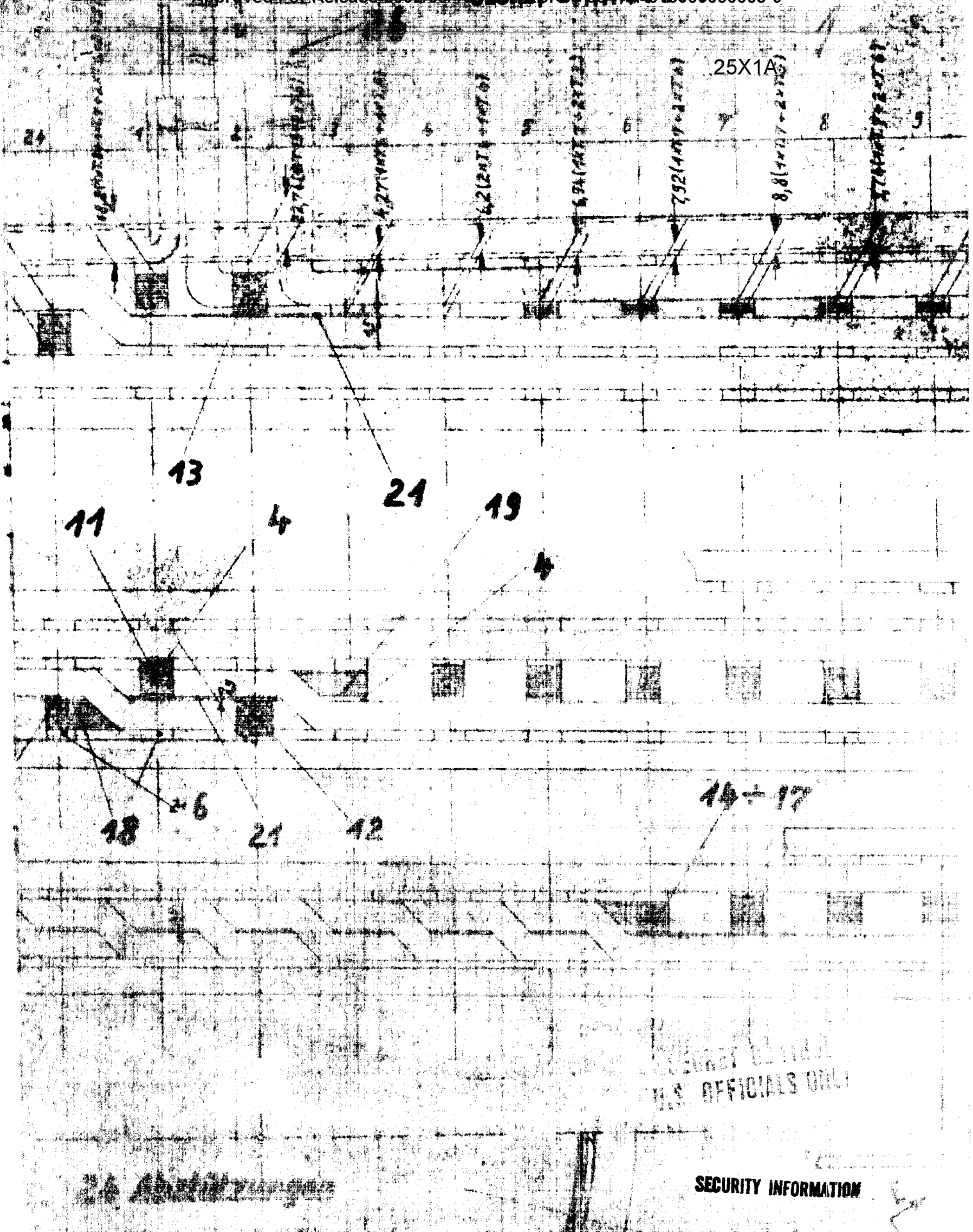
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